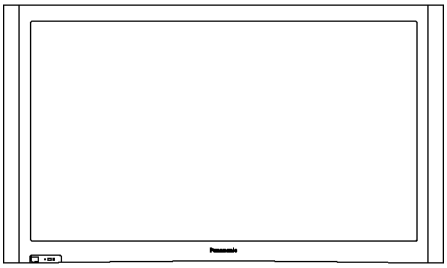
ORDER NO. MTNC080205CE
B34 Canada: B07

Service Manual

50 inch Class 1080p Plasma HDTV

Model No. TH-50PZ85U

GPF11DU Chassis



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

© 2008 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

1 Safety Precautions

1.1. General Guidelines

1. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
2. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
3. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.
4. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
5. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
6. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1Mohm and 5.2Mohm.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

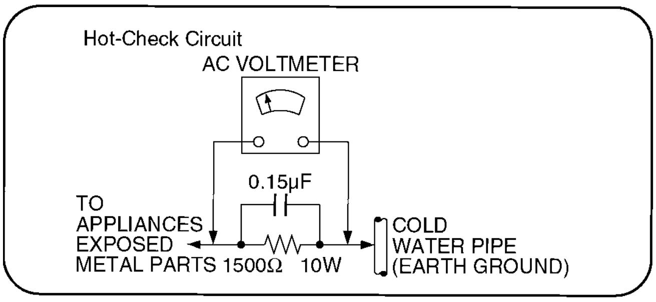

Hot-Check Circuit
AC VOLTMETER
0.15µF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor [chip] components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

2.2. About lead free solder (PbF)

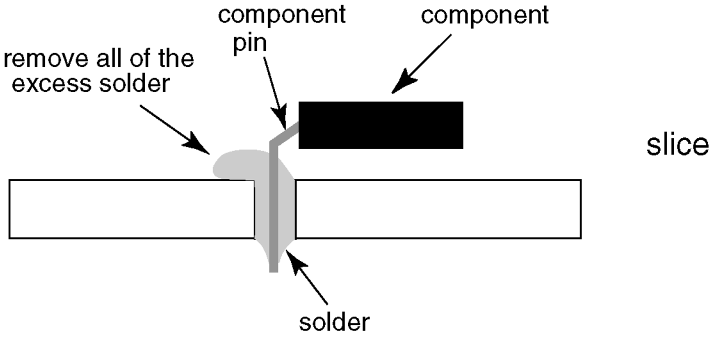
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it’s manufacture due to environmental conservation issues. For service and repair work, we’d suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB.

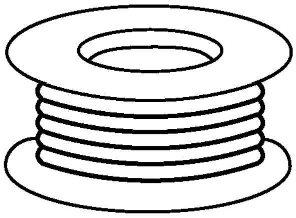
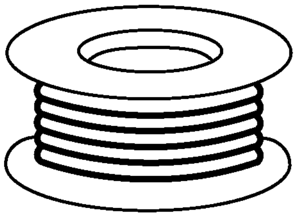
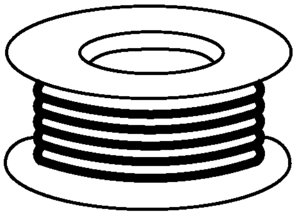
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

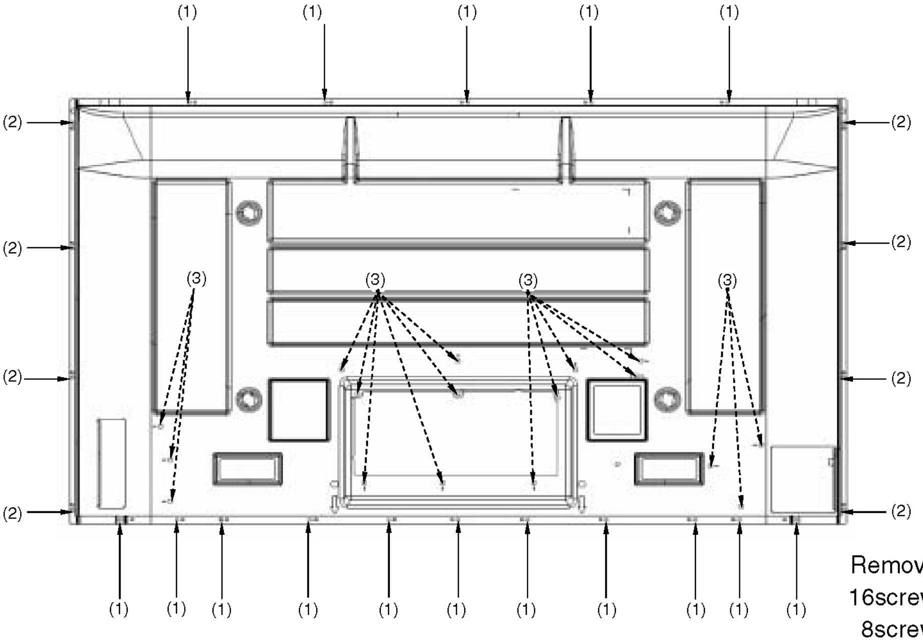
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

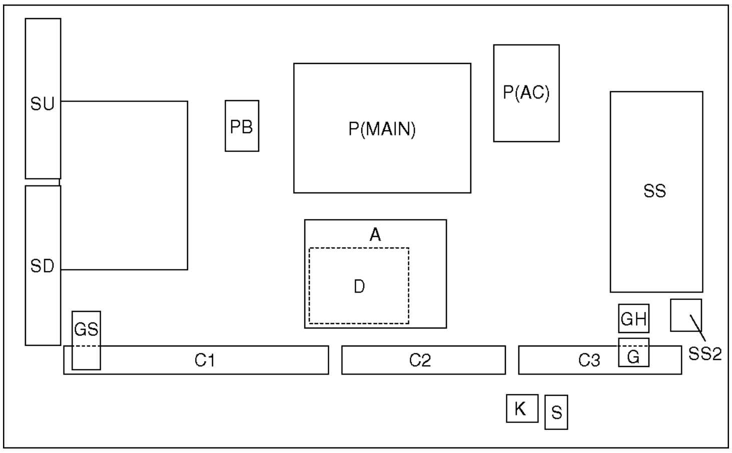
3 Service Navigation

3.1. Service Hint

Remove the Rear cover



Remove:
16screws (1) THEL052Z
8screws (2) XTB4+12GFJK
17screws (3) THEL0429



Board Name	Function	Board Name	Function
P	Power Supply	C1	Data Driver (Lower Right)
A	DC-DC Converter Speaker out, Sound Processor AV Terminal, AV Switch Digital Signal Processor, Micon, HDMI Interface Peaks Lite 2p	C2	Data Driver (Lower Center)
		C3	Data Driver (Lower Left)
		SC	Scan Drive
		SU	Scan out (Upper)
		SD	Scan out (Lower)
D	Format Converter, Plasma AI, Sub-Field Processor	SS	Sustain Drive
K	Remote receiver, Power LED	SS2	Sustain Connector
S	Power Switch	GH	HDMI3 in
GS	SD Card Slot, Key Switch	G	Side Terminal
		PB	Fan control

3.2. Applicable signals

* Mark: Applicable input signal for Component (Y, PB, PR) and HDMI

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13 inch (640 × 480)	35.00	66.67			*
640 ×480 @75	37.50	75.00			*
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16 inch (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21 inch (1,152 ×870)	68.68	75.06			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00			*

Note

- Signals other than those shown above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

4 Specifications

Power Source		AC 120 V, 60 Hz	
Power Consumption			
	Maximum	690 W	
	Standby condition	0.2 W	
Plasma Display panel			
	Drive method	AC type	
	Aspect Ratio	16:9	
	Visible screen size	50 inch class (49.9 inches measured diagonally)	
	(W × H × Diagonal)	43.5 inch × 24.4 inch × 49.9 inch (1,106 mm × 622 mm × 1,269 mm)	
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H))[5,760 × 1,080 dots]	
Sound			
	Audio Output	20 W [10 W + 10 W] (10 % THD)	
PC signals		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz	
Channel Capability (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135	
Operating Conditions			
		Temperature:	32 °F - 104 °F (0 °C - 40 °C)
		Humidity:	20 % - 80 % RH (non-condensing)
Connection Terminals			
	VIDEO IN 1-2	VIDEO:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω)
		S-VIDEO:	Mini DIN 4-pin Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω)
		AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
	COMPONENT INPUT 1-2	Y:	1.0 V [p-p] (including synchronization)
		P_B, P_R:	±0.35 V [p-p]
		AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
	HDMI 1-3	TYPE A Connector × 3 This TV supports [HDAVI Control 3] function.	
	PC	D-SUB 15PIN:	R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance)
		AUDIO L-R:	Stereo Mini Jack (ϕ 3.5 mm) × 1
	Card slot	SD CARD slot × 1	
	AV PROG OUT	VIDEO:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω)
		AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	
FEATURES		3D Y/C FILTER	
		CLOSED CAPTION	V-Chip
		Photo Viewer	HDAVI Control 3
Dimensions (W × H × D)			
	Including pedestal	49.4 inch × 32.7 inch × 15.3 inch (1,254 mm × 830 mm × 387 mm)	
	TV Set only	49.4 inch × 30.7 inch × 3.8 inch (1,254 mm × 778 mm × 94 mm)	
Mass			
	Including pedestal	88.2 lb. (40 kg)	
	TV Set only	83.8 lb. (38 kg)	

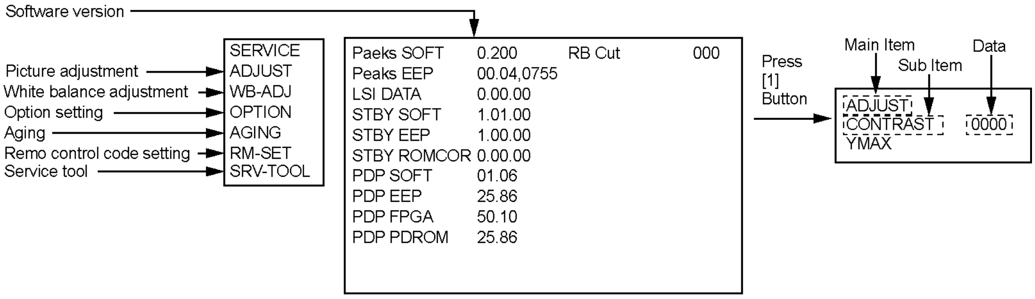
Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Service Mode

5.1. How to enter into Service Mode

While pressing [VOLUME (-)] button of the main unit, press [INFO] button of the remote control three times within 2 seconds.


Software version
Picture adjustment
White balance adjustment
Option setting
Aging
Remo control code setting
Service tool
SERVICE
ADJUST
WB-ADJ
OPTION
AGING
RM-SET
SRV-TOOL
Paeks SOFT 0.200
RB Cut 000
Peaks EEP 00.04,0755
LSI DATA 0.00.00
STBY SOFT 1.01.00
STBY EEP 1.00.00
STBY ROMCOR 0.00.00
PDP SOFT 01.06
PDP EEP 25.86
PDP FPGA 50.10
PDP PDROM 25.86
Press [1] Button
Main Item
Sub Item
Data
ADJUST
CONTRAST
0000
YMAX

5.1.1. Key command

[1] button...Main items Selection in forward direction

[2] button...Main items Selection in reverse direction

[3] button...Sub items Selection in forward direction

[4] button...Sub items Selection in reverse direction

[VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

5.1.2. Contents of adjustment mode

- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data	Remark
ADJUST	CONTRAST	000	
	COLOR	3C	
	TINT	03	
	SUB-BRT	800	
WB-ADJ	R-CUT	80	
	G-CUT	80	
	B-CUT	80	
	R-DRV	FC	
	G-DRV	F8	
	B-DRV	D9	
	ALL-CUT	80	
	ALL-DRV	FC	
OPTION	BOOT	ROM	Factory Preset
	STBY-SET	00	
	EMERGENCY	ON	
	CLK MODE	00	
	CLOCK	000	
AGING	RGBW		
	COUNT		
	ALL WHITE		
	ALL RED		
	ALL GREEN		
	ALL BLUE		
	ON/OFF		
	RAMP WHITE		
	RAMP RED		
	RAMP GREEN		
	RAMP BLUE		
	1% WINDOW		
	COLOR BAR		
	A-ZONE B-ZONE/4 TRIO		
	SCROLL		
	WHITE FLAME		
RM-SET	CODE	A	Fixed
SRV-TOOL	-		See next

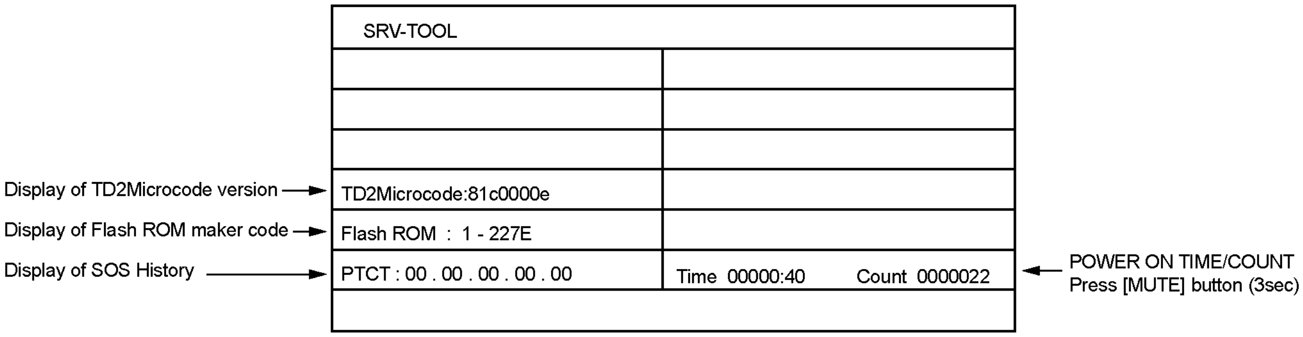
5.1.3. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

5.2. Service tool mode

5.2.1. How to access

1. Select [SRV-TOOL] in Service Mode.
2. Press [OK] button on the remote control.



SRV-TOOL

TD2Microcode:81c0000e

Flash ROM : 1 - 227E

PTCT : 00 . 00 . 00 . 00 . 00

Time 00000:40 Count 0000022

Display of TD2Microcode version
Display of Flash ROM maker code
Display of SOS History
POWER ON TIME/COUNT
Press [MUTE] button (3sec)

5.2.2. Display of SOS History

SOS History (Number of LED blinking) indication.
From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.
This indication except 2nd and 1st occurrence after shipment will be cleared by [Self-check indication and forced to factory shipment setting].

5.2.3. POWER ON TIME/COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for (3sec).
Time : Cumulative power on time, indicated hour : minute by decimal
Count : Number of ON times by decimal
Note : This indication will not be cleared by either of the self-checks or any other command.

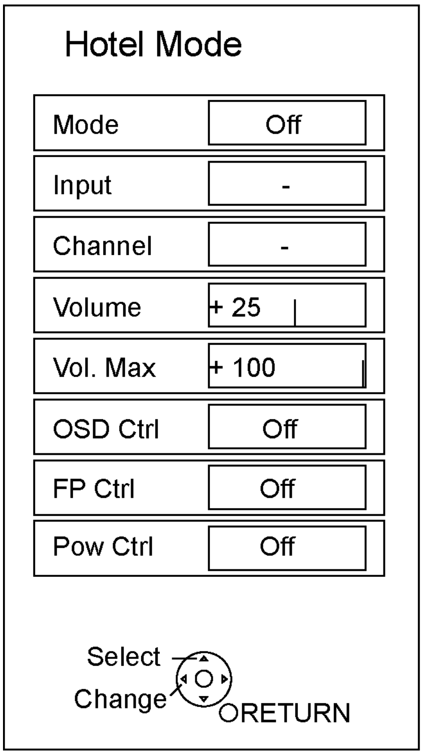
5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.3. Hotel mode

1. Purpose
   Restrict a function for hotels.
2. Access command to the Hotel mode setup menu
   In order to display the Hotel mode setup menu, please enter the following command **(within 2 second)**.
   [TV] : Vol. [Down] + [REMOTE] : TV/VIDEO (3 times)

   Then, the Hotel mode setup menu is displayed.



Hotel Mode

Mode: Off
Input: -
Channel: -
Volume: + 25
Vol. Max: + 100
OSD Ctrl: Off
FP Ctrl: Off
Pow Ctrl: Off

3. To exit the Hotel mode setup menu
   Disconnect AC power cord from wall outlet.
4. Explain the Hotel mode setup menu

item	Function
Mode	Select hotel mode ON/OFF
Input	Select input signal modes. Set the input, when each time power is switched on. Selection: -/RF/COMP1/COMP2/HDMI1/HDMI2/HDMI3 VIDEO1/VIDEO2/PC • Off: give priority to a last memory.
Channel	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection: Any channel number or [-]. [-] means the channel when turns off.
Volume	Adjust the volume when each time power is switched on. Range: 0 to 100
Vol. Max	Adjust maximum volume. Range: 0 to 100
OSD Ctrl	Restrict the OSD. Selection: OFF/PATTERN1 • OFF: No restriction • PATTERN1: restriction
FP Ctrl	Select front key conditions. Selection: Off/Pattern1/All • Off: altogether valid. • Pattern: only input key is valid. • All: altogether invalid.
Pow Ctrl	Select POWER-ON/OFF condition when AC power cord is disconnected and then connected. OFF: The same condition when AC power cord is disconnected. ON: Forced power ON condition.

6 Troubleshooting Guide

Use the self-check function to test the unit.

1. Checking the IIC bus lines
2. Power LED Blinking timing

6.1. Check of the IIC bus lines

6.1.1. How to access

Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

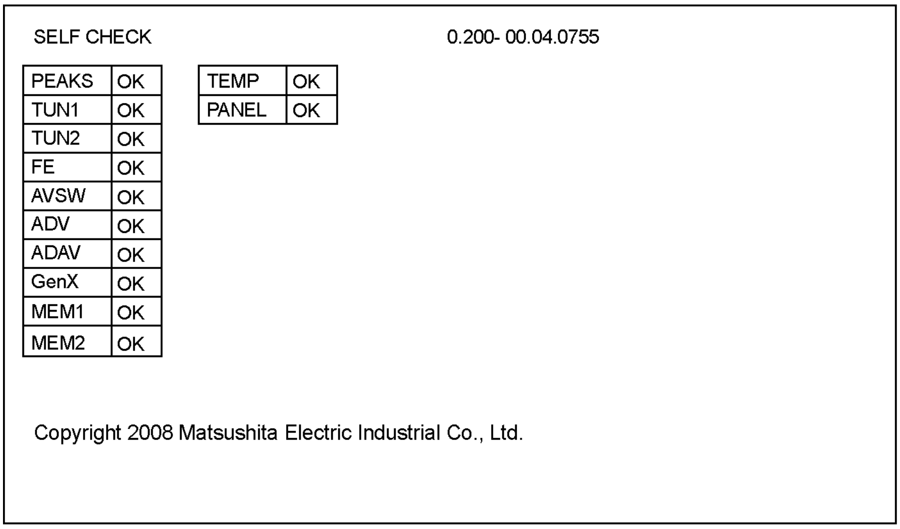
Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

6.1.2. Exit

Disconnect the AC cord from wall outlet.

6.1.3. Screen display



SELF CHECK 0.200- 00.04.0755

PEAKS	OK
TUN1	OK
TUN2	OK
FE	OK
AVSW	OK
ADV	OK
ADAV	OK
GenX	OK
MEM1	OK
MEM2	OK

TEMP	OK
PANEL	OK

Copyright 2008 Matsushita Electric Industrial Co., Ltd.

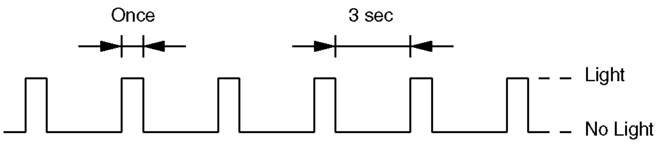
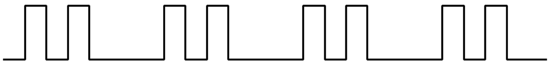
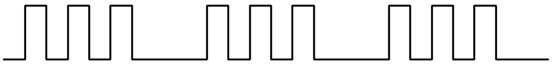
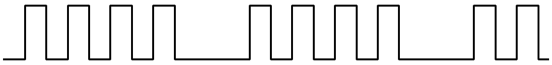
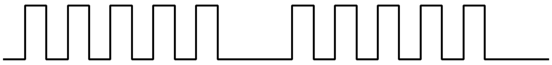
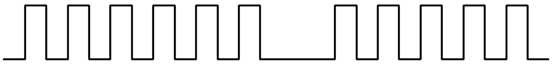
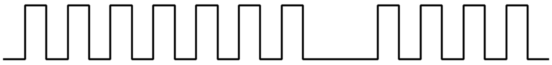
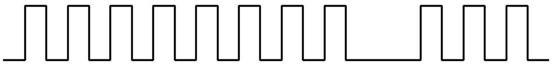
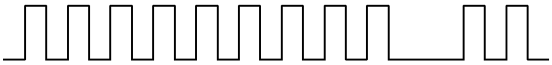
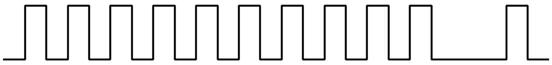
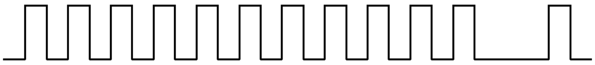
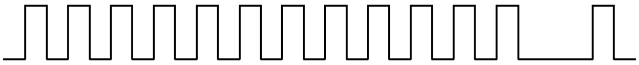
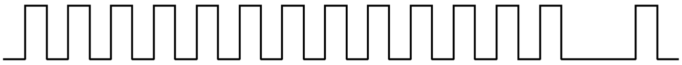
6.1.4. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Ref. No.	Description	P.C.B.
PEAKS	IC8001	Peaks Lite2p	A-Board
TUN1	TU8300	TUNER (PLL block)	A-Board
TUN2	TU8300	TUNER (MTS block)	A-Board
FE	IC8300	FRONT END PROCESSOR	A-Board
AVSW	IC3001	AUDIO/VIDEO SW	A-Board
ADV	IC4510	A/D CONV. , HDMI RX	A-Board
ADAV	IC2106	SOUND PROCESSOR	A-Board
GenX	IC1100	GenX5 (STB MCU)	A-Board
MEM1	IC1101	EEPROM (GenX5)	A-Board
MEM2	IC8503	EEPROM (Peaks)	A-Board
TEMP	IC9002	TEMP SENSOR	A-Board
PANEL	IC9003	PANEL MICON	A-Board

6.2. Power LED Blinking timing chart

1. Subject
   Information of LED Flashing timing chart.
2. Contents
   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

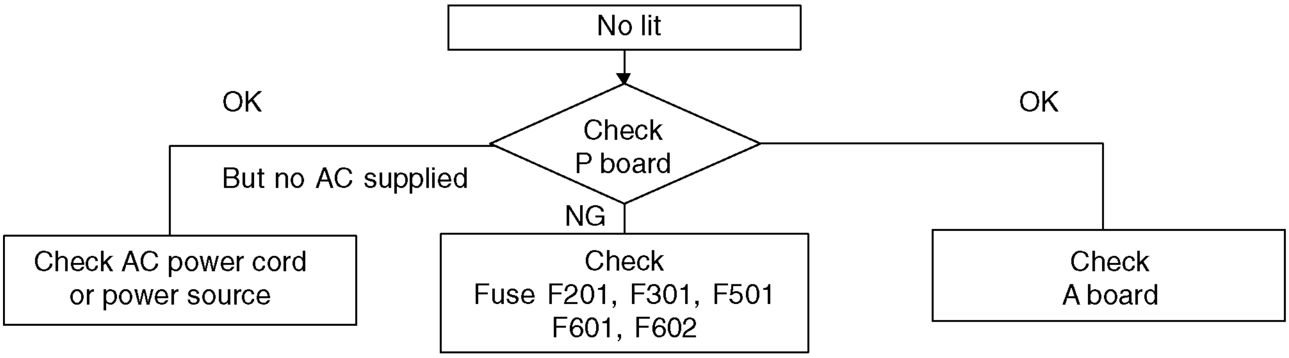
Blinking Times	Blinking timing	Contents	Check point
1		No particular check point	-
		Panel Status	-
		STB 5V SENSE Time out	A-Board
2		15V SOS	D-Board
3		3.3V SOS	A-Board
4		Power SOS	P-Board
5		5V SOS	D-Board
6		Driver SOS1 (SC Energy recovery circuit)	SU-Board SD-Board SC-Board
7		Driver SOS2 (SC floating voltage area)	SU-Board SD-Board SC-Board
8		Driver SOS3 (SS Energy recovery circuit)	SS-Board SS2-Board
9		Panel Config SOS	-
10		Sub 5V SOS Main 3.3V SOS DTV 9V SOS Tuner Power SOS	A-Board
11		Fan SOS	PB-Board
12		Sound SOS	A-Board
13		Communication Error with IC8001 (Pesks Lite 2)	A-Board

6.3. No Power

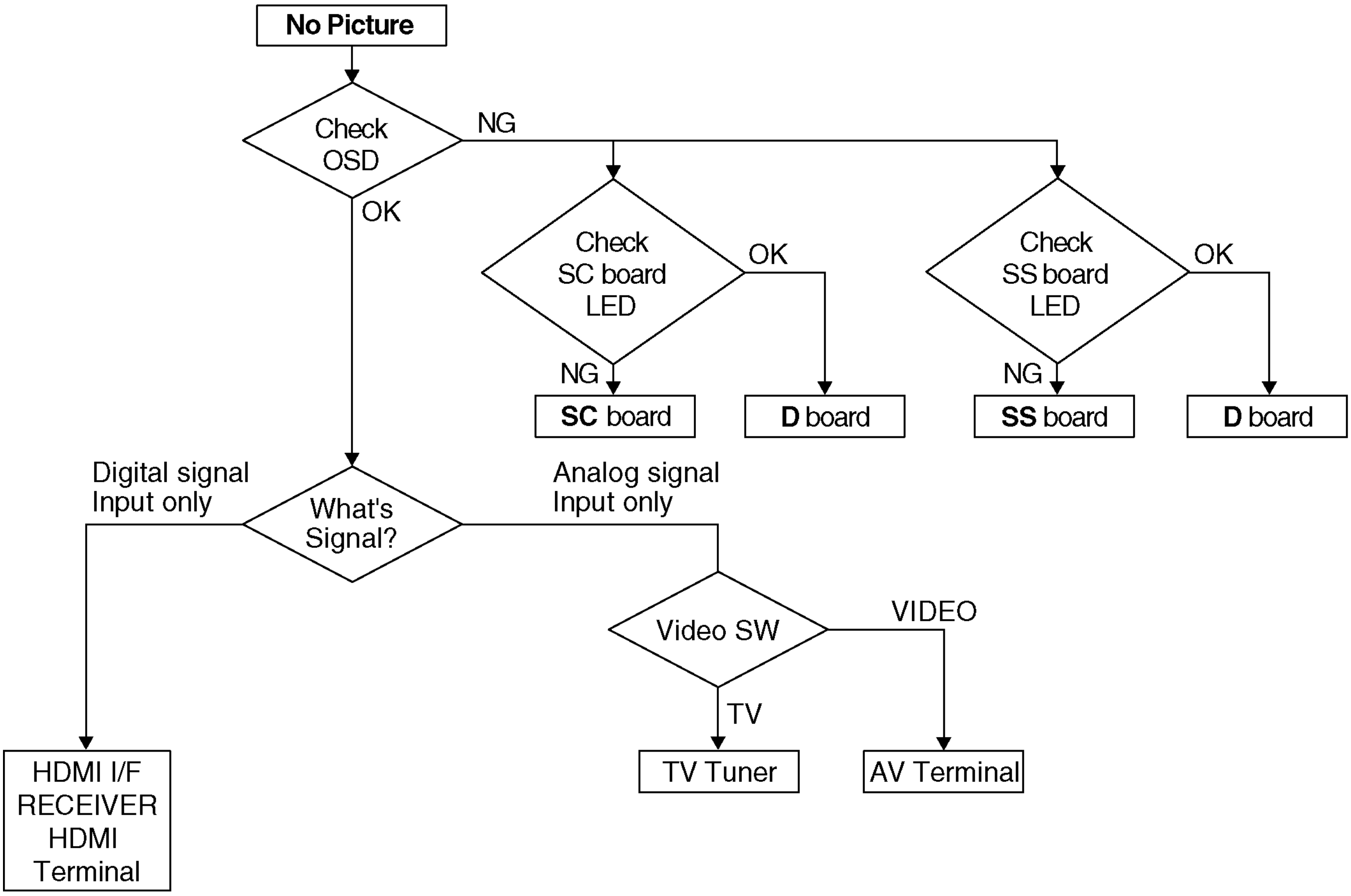
First check point

There are following 2 states of No Power indication by power LED.

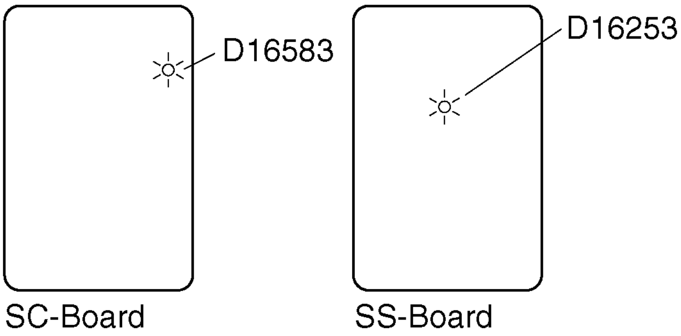
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)


No lit
OK
OK
Check
P board
But no AC supplied
NG
Check AC power cord
or power source
Check
Fuse F201, F301, F501
F601, F602
Check
A board

6.4. No Picture

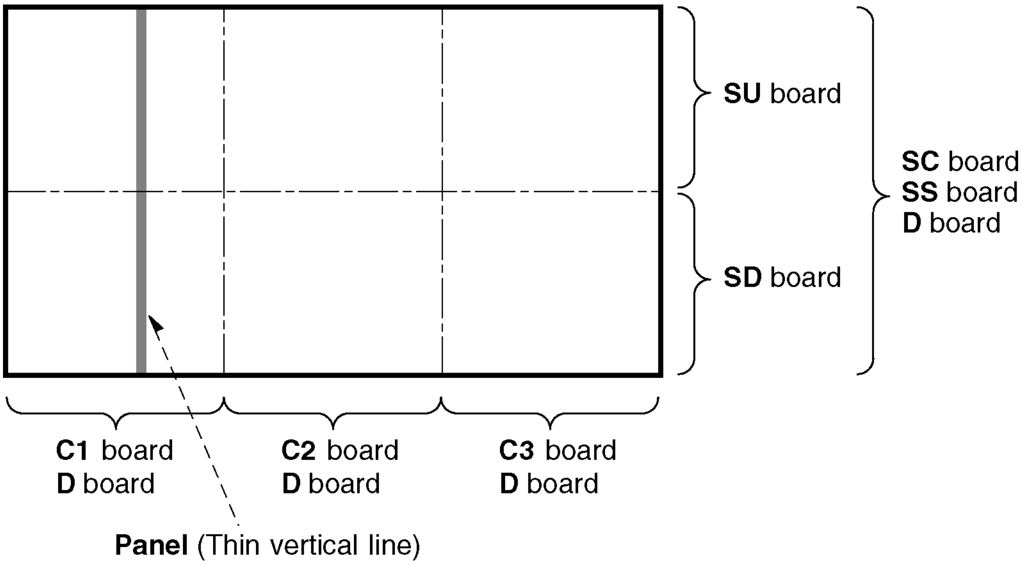

No Picture
Check OSD
NG
OK
Check SC board LED
OK
NG
SC board
D board
Check SS board LED
OK
NG
SS board
D board
Digital signal Input only
What's Signal?
Analog signal Input only
Video SW
VIDEO
TV
HDMI I/F RECEIVER HDMI Terminal
TV Tuner
AV Terminal

Drive circuits LED indicator


D16583
D16253
SC-Board
SS-Board

6.5. Local screen failure

Plasma display may have local area failure on the screen. Fig-1 is the possible defect P.C.B. for each local area.


SU board
SD board
SC board
SS board
D board
C1 board
D board
C2 board
D board
C3 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

Fig-1

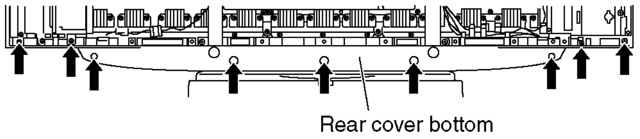
7 Disassembly and Assembly Instructions

7.1. Remove the Rear cover

1. See Service Hint (Section 3)

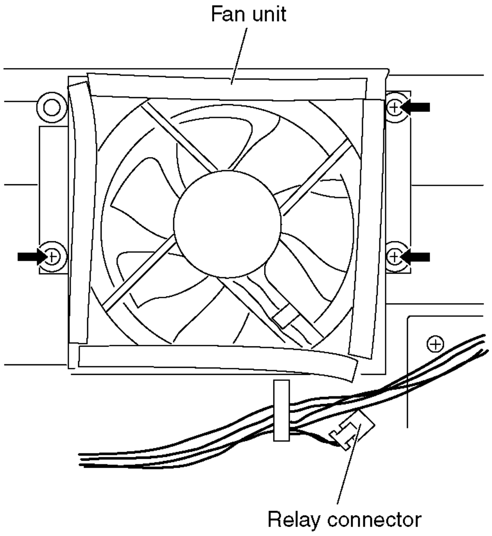
7.2. Remove the Rear cover bottom

1. Remove the screws (×9 ➡).
2. Remove the Rear cover bottom.

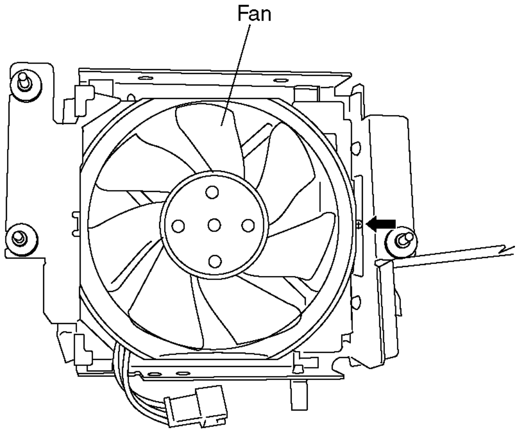

Rear cover bottom

7.3. Remove the Fan unit

1. Unlock the cable clampers to free the cable.
2. Remove the screws (×3 ➡).
3. Remove the relay connectors and remove the Fan unit.


Fan unit
Relay connector

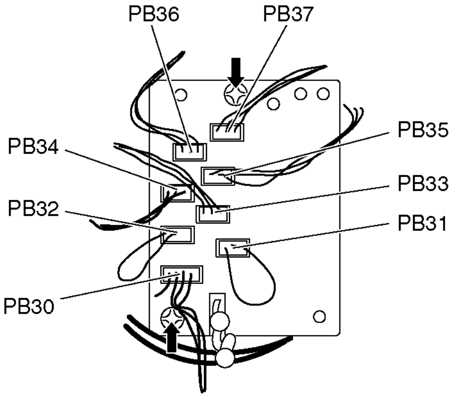
4. Remove the screw (×1 ➡) on the back side.
5. Remove the Fan.



Fan unit back side

7.4. Remove the PB-Board

1. Unlock the cable clampers to free the cable.
2. Remove the screws (×2 ➡).
3. Remove a short-jumper connectors (PB31 and PB32) and re-use for new PB-Board.
4. Disconnect the connectors (PB30, PB33, PB34, PB35, PB36 and PB37)
5. Remove the PB-Board.

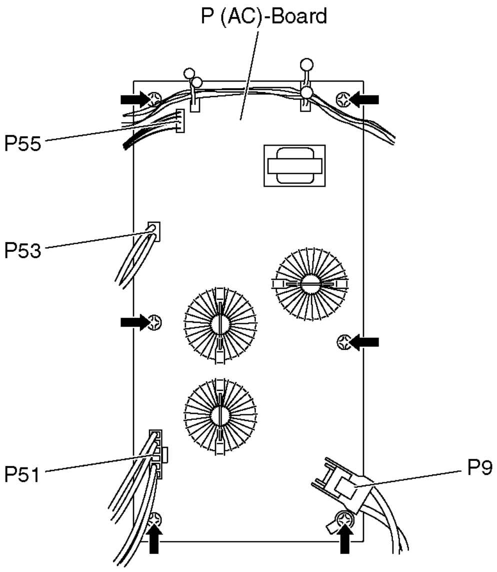

PB36
PB37
PB35
PB34
PB33
PB32
PB31
PB30

7.5. Remove the P(AC)-Board

Caution:

To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

1. Unlock the cable clampers to free the cable.
2. Disconnect the connectors (P9, P51, P53 and P55).
3. Remove the screws (×6 ➡) and remove the P(AC)-Board.

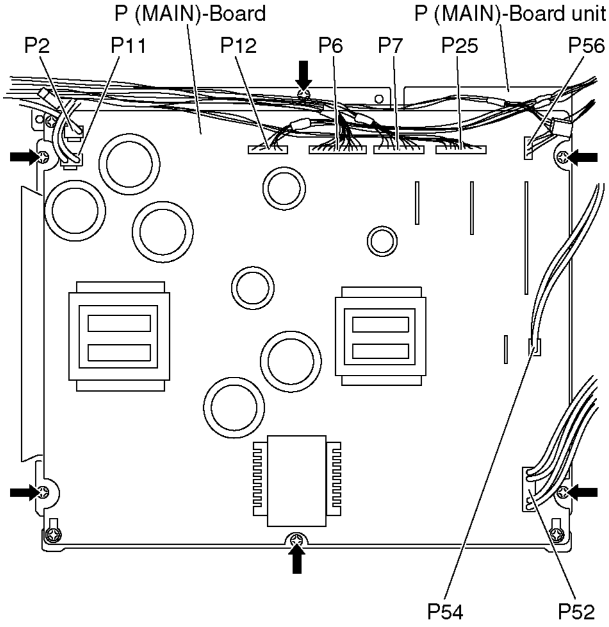

P (AC)-Board
P55
P53
P51
P9

7.6. Remove the P(MAIN)-Board

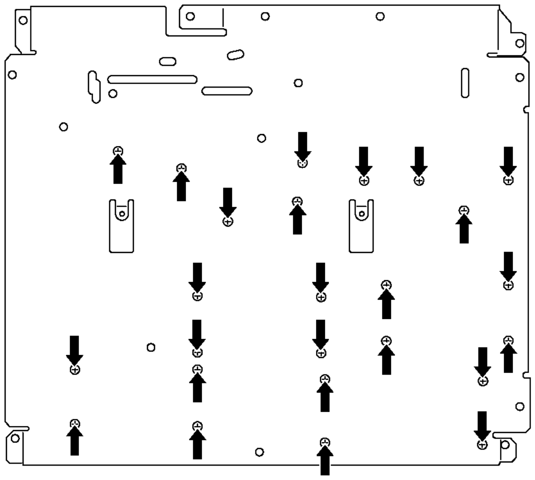
Caution:

To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (P2, P6, P7, P11, P12, P25, P52, P54 and P56).
3. Remove the screws (×6 ➡) and remove the P(MAIN)-Board unit.

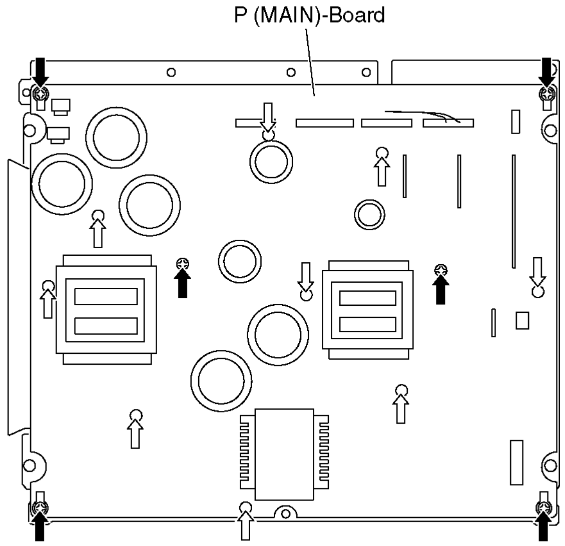

P (MAIN)-Board
P (MAIN)-Board unit
P2
P11
P12
P6
P7
P25
P56
P54
P52

4. Remove the screws (×25 ➡) on the back side.



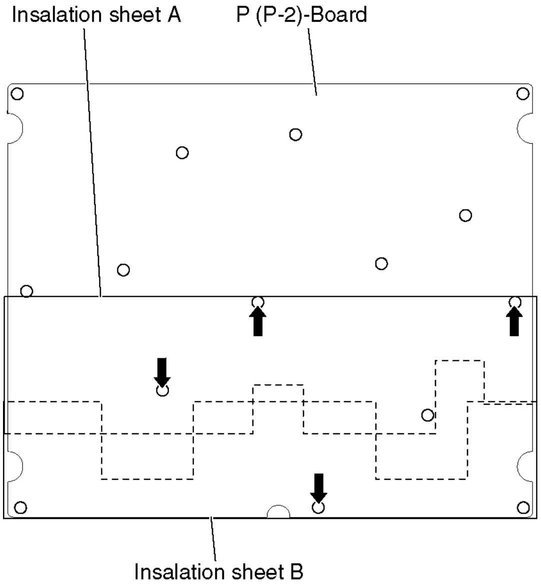
P (MAIN)-Board unit back side

5. Remove the screws (×6 ➡).
6. Remove the molding props (×9 ⇨).
7. Remove the P(MAIN)-Board.


P (MAIN)-Board

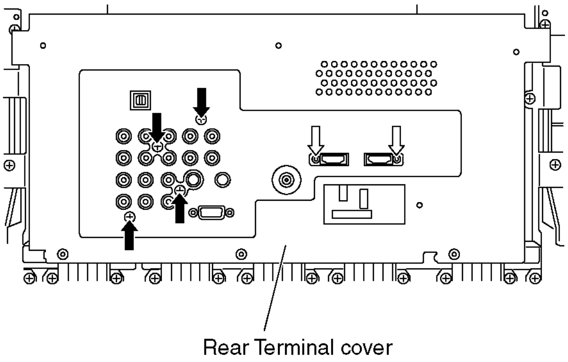
Note:

When assembling the P-Board, the position of each hole of the insulation sheets (A and B) is set to the position of each hole of the P-Board, then assemble them. (➡ marks indicate setting positions.)


Insalation sheet A
P (P-2)-Board
Insalation sheet B

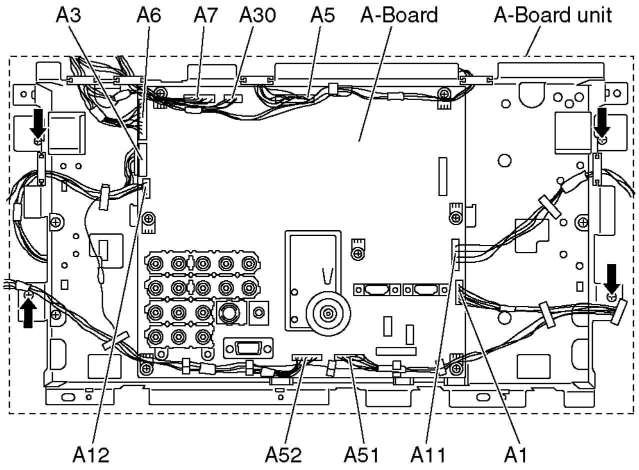
7.7. Remove the Rear Terminal cover

1. Remove the screws (×4 ➡, ×2 ⇨).
2. Remove the Rear Terminal cover.


Rear Terminal cover

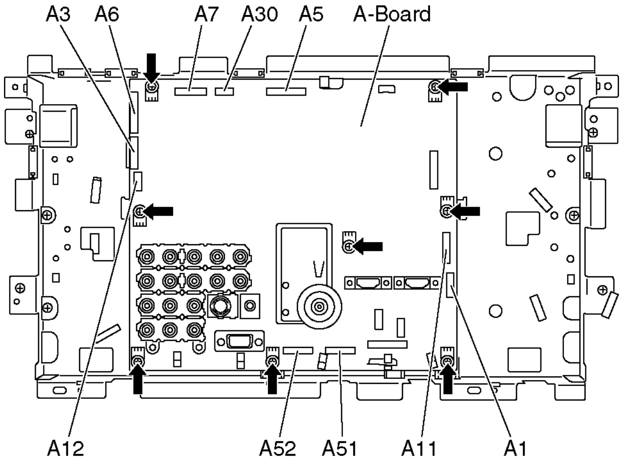
7.8. Remove the A-Board unit

1. Unlock the cable clampers to free the cable.
2. Disconnect the connectors (A1, A3, A5, A6, A7, A11, A12, A30, A51 and A52).
3. Remove the screws (×4 ➡) and remove the A-Board unit.


A3
A6
A7
A30
A5
A-Board
A-Board unit
A12
A52
A51
A11
A1

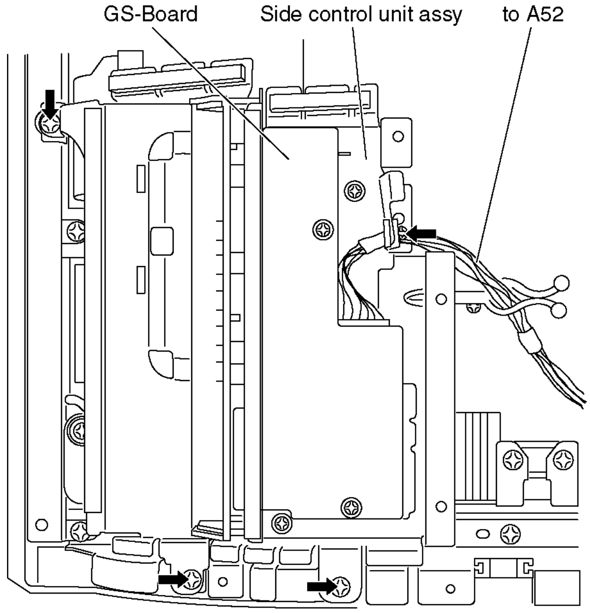
7.9. Remove the A-Board

1. Remove the A-Board unit. (See section 7.8.)
2. Remove the screws (×8 ➡) and remove the A-Board.


A3
A6
A7
A30
A5
A-Board
A12
A52
A51
A11
A1

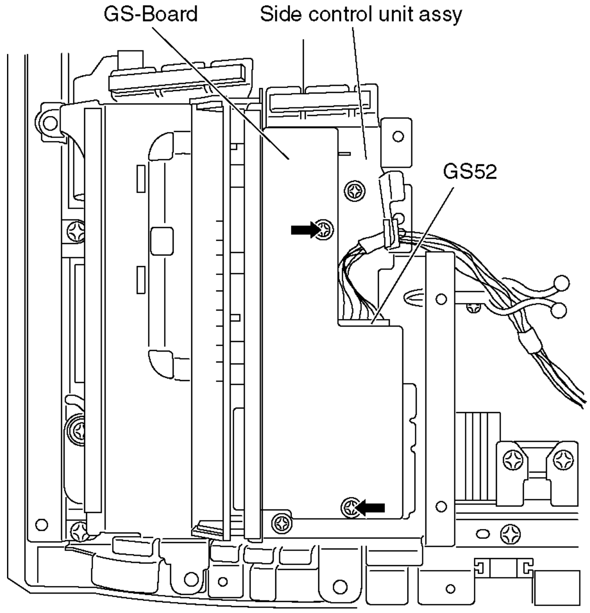
7.10. Remove the Side control unit assy

1. Disconnect the connectors (A52). (See section 7.8.)
2. Remove the screws (×4 ➡) and remove the Side control unit assy.


GS-Board
Side control unit assy
to A52

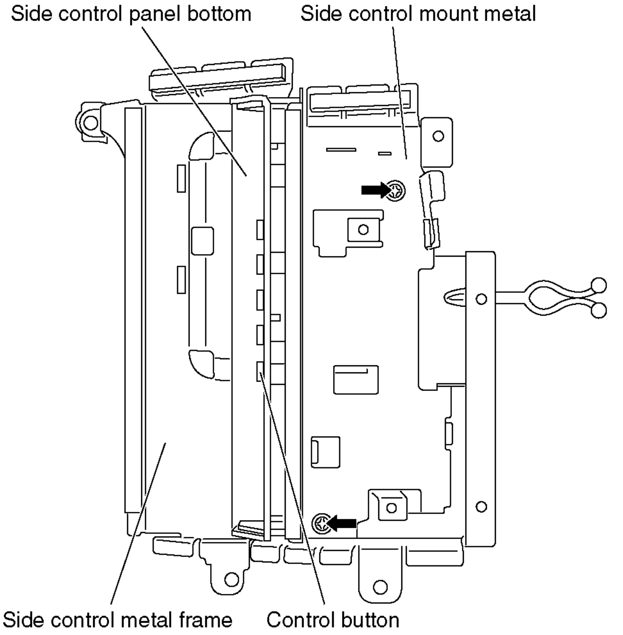
7.11. Remove the GS-Board and the Control button

1. Remove the Side control unit assy. (See section 7.10.)
2. Remove the screws (×2 ➡).
3. Disconnect the connectors (GS52) and remove the GS-Board.

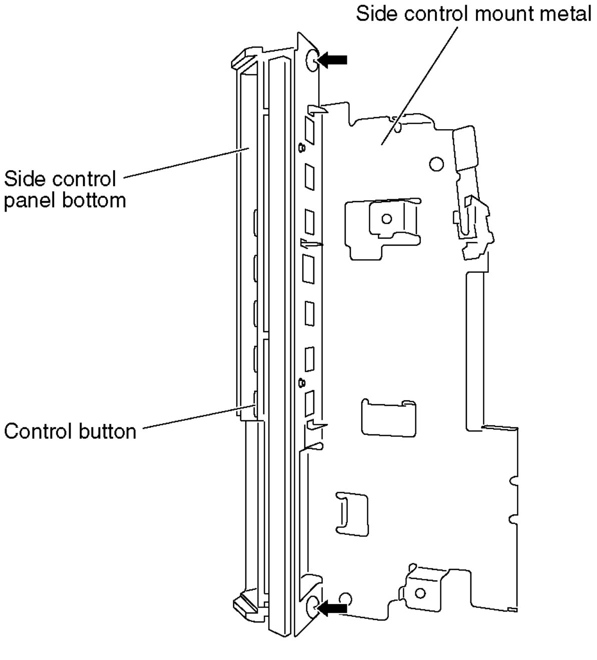

GS-Board
Side control unit assy
GS52

4. Remove the screws (×2 ➡)
5. Remove the Side control mount metal from Side control

metal frame.

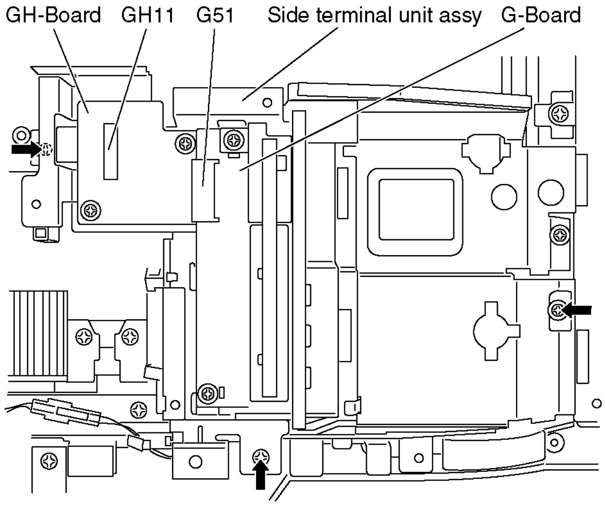

Side control panel bottom
Side control mount metal
Side control metal frame
Control button

6. Remove the screws (×2 ➡) and remove the Side control panel bottom and the Control button.


Side control mount metal
Side control panel bottom
Control button

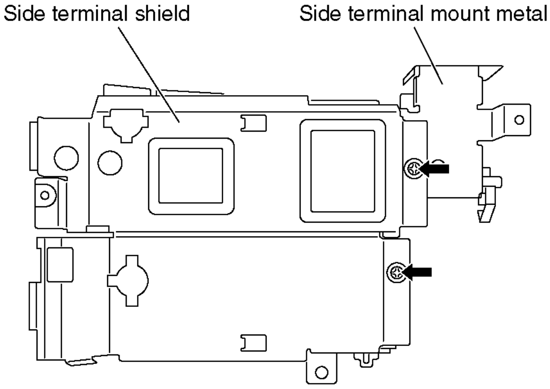
7.12. Remove the Side terminal unit assy

1. Unlock the cable clampers to free the cable.
2. Disconnect the connectors (GH11 and G51).
3. Remove the screws (×3 ➡) and remove the Side terminal unit assy.


GH-Board
GH11
G51
Side terminal unit assy
G-Board

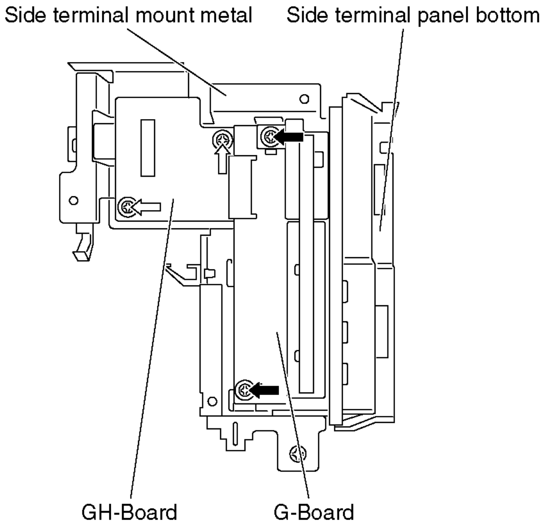
7.13. Remove the G-Board and the GH-board

1. Remove the Side terminal unit assy. (See section 7.12.)
2. Remove the screws (×2 ➡) from back side.
3. Remove the Side terminal shield.


Side terminal shield
Side terminal mount metal

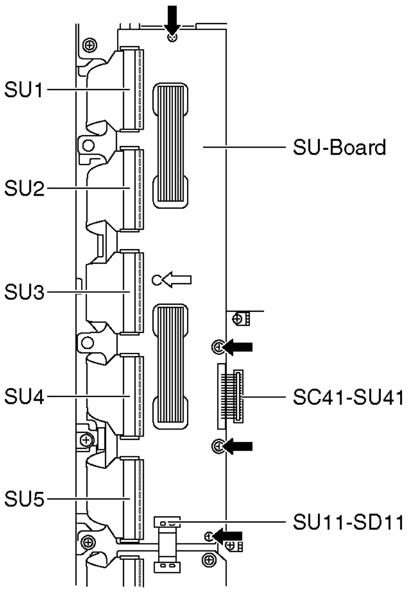
4. Remove the Side terminal panel bottom.
5. Remove the screws (×2 ➡,×2 ⇨).

6. Remove the G-Board and the GH-board.


Side terminal mount metal
Side terminal panel bottom
GH-Board
G-Board

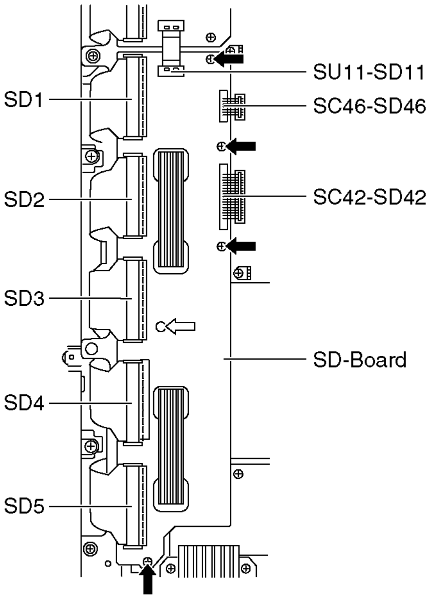
7.14. Remove the SU-Board

1. Remove the flexible cables (SU1, SU2, SU3, SU4 and SU5) connected to the SU-Board.
2. Remove the flexible cable (SU11-SD11) and the bridge connector (SC41-SU41).
3. Remove the molding prop (×1 ⇨).
4. Remove the screws (×4 ➡) and remove the SU-Board.


SU1
SU2
SU3
SU4
SU5
SU-Board
SC41-SU41
SU11-SD11

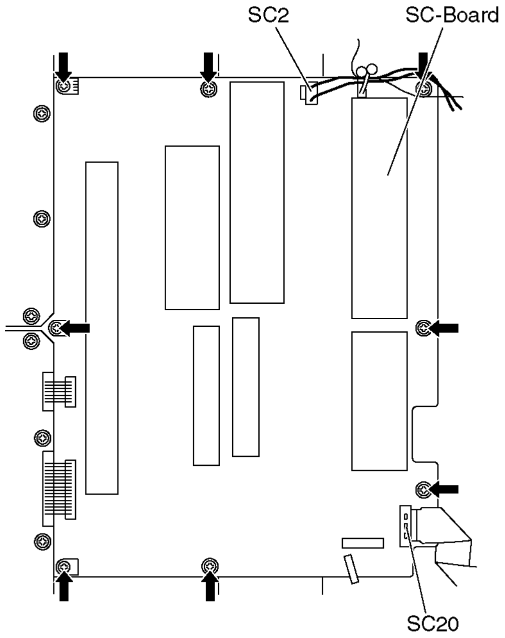
7.15. Remove the SD-Board

1. Remove the flexible cables (SD1, SD2, SD3, SD4 and SD5) connected to the SD-Board.
2. Remove the flexible cable (SU11-SD11) and the bridge connectors (SC42-SD42 and SC46-SD46).
3. Remove the molding prop (×1 ⇨).
4. Remove the screws (×4 ➡) and remove the SD-Board.


SU11-SD11
SC46-SD46
SD1
SD2
SC42-SD42
SD3
SD-Board
SD4
SD5

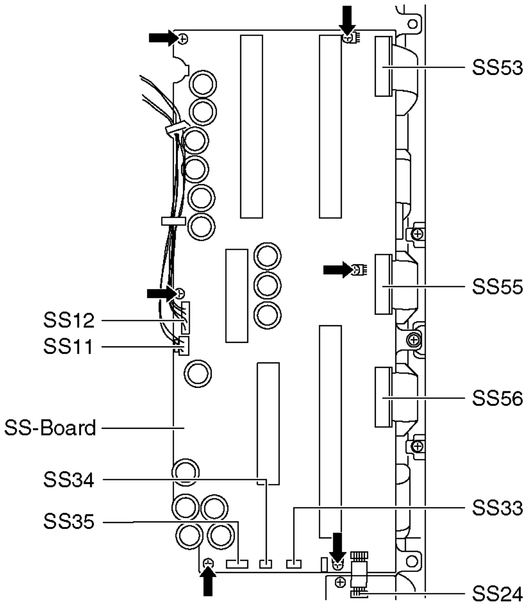
7.16. Remove the SC-Board

1. Remove the SU-Board and SD-Board. (See section 7.14. and 7.15.)
2. Unlock the cable clampers to free the cable.
3. Disconnect the connector (SC2).
4. Disconnect the flexible cable (SC20).
5. Remove the screws (×8 ➡) and remove the SC-Board.


SC2
SC-Board
SC20

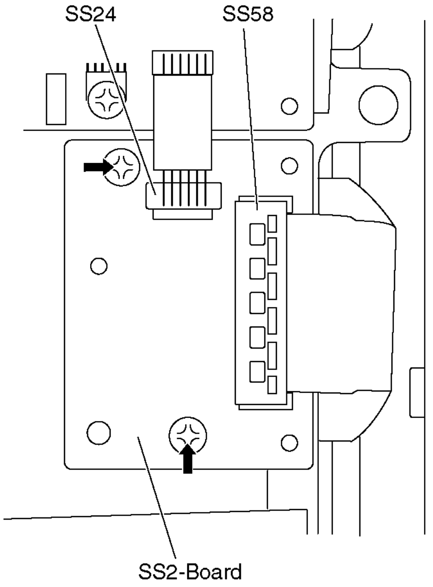
7.17. Remove the SS-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the connectors (SS11, SS12, SS24, SS33 and SS35).
3. Remove a short-jumper connector SS34 and re-use for new SS-Board.
4. Disconnect the flexible cables (SS53, SS55 and SS56).
5. Remove the screws (×6 ➡) and remove the SS-Board.


SS53
SS55
SS12
SS11
SS56
SS-Board
SS34
SS33
SS35
SS24

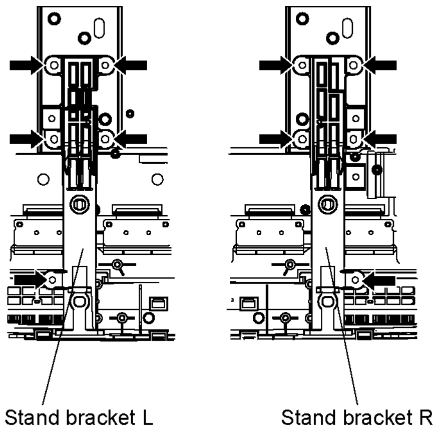
7.18. Remove the SS2-Board

1. Disconnect the connector (SS24) and disconnect the flexible cable (SS58).
2. Remove the screws (×2 ➡) and remove the SS2-Board.


SS24
SS58
SS2-Board

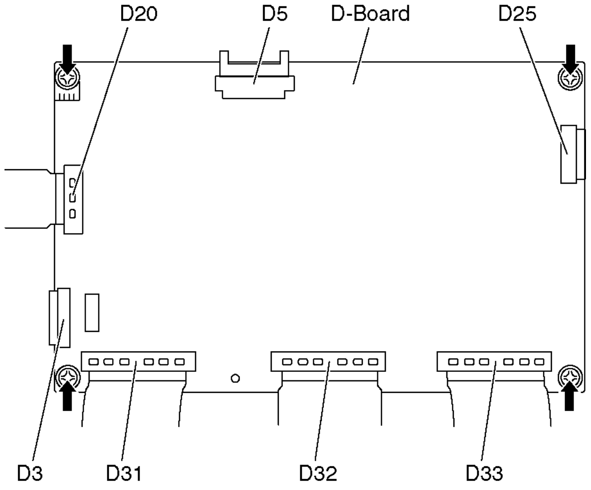
7.19. Remove the Stand brackets

1. Remove the Plasma panel section from the servicing stand and lay on a flat surface such as a table (covered) with the Plasma panel surface facing downward.
2. Remove the Stand brackets (L, R) fastening screws (×5 ➡ each) and remove the Stand brackets (L, R).


Stand bracket L
Stand bracket R

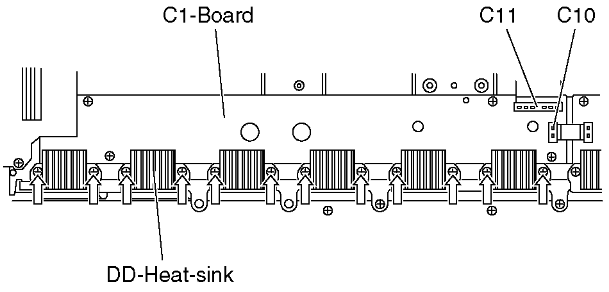
7.20. Remove the D-Board

1. Remove the A-Board unit. (See section 7.8.)
2. Disconnect the connectors (D3, D5 and D25).
3. Disconnect the flexible cables (D20, D31, D32 and D33).
4. Remove the screws (×4 ➡) and remove the D-Board.

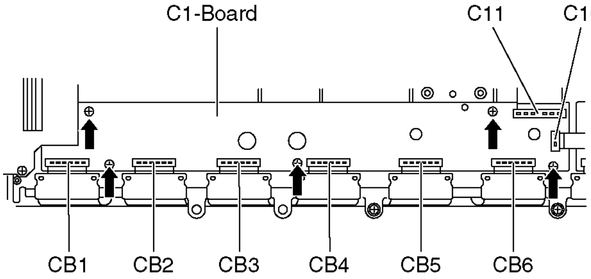

D20
D5
D-Board
D25
D3
D31
D32
D33

7.21. Remove the C1-Board

1. Remove the A-Board unit. (See section 7.8.)
2. Remove the Side control unit assy. (See section 7.10.)
3. Remove the Stand bracket L. (See section 7.19.)
4. Remove the DD-Heat-sink fastening screws (×12 ⇨).
5. Remove the DD-Heat-sink (×6).

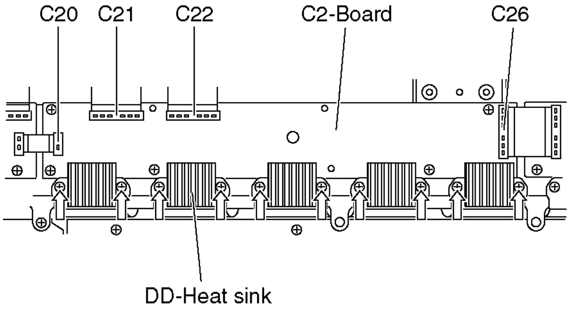

C1-Board
C11
C10
DD-Heat-sink

6. Disconnect the flexible cables (CB1, CB2, CB3, CB4, CB5 and CB6).
7. Disconnect the flexible cables (C10 and C11).
8. Remove the screws (×5 ➡) and remove the C1-Board.

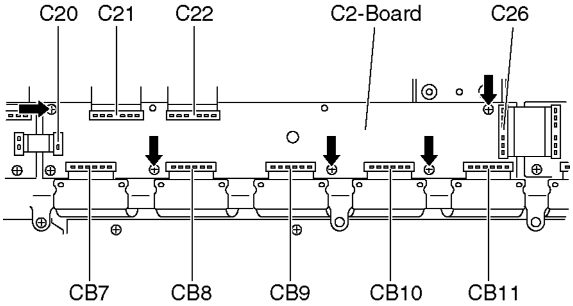

C1-Board
C11
C10
CB1
CB2
CB3
CB4
CB5
CB6

7.22. Remove the C2-Board

1. Remove the A-Board unit. (See section 7.8.)
2. Remove the stand bracket R. (See section 7.19.)
3. Remove the DD-Heat-sink fastening screws (×10 ⇨).
4. Remove the DD-Heat-sink (×5).

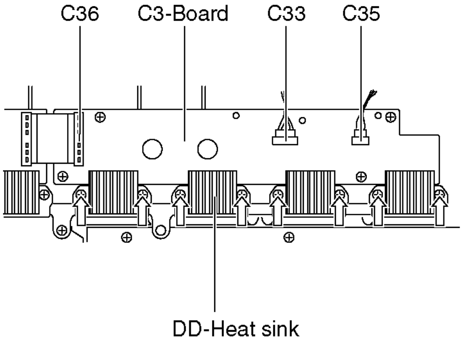

C20
C21
C22
C2-Board
C26
DD-Heat sink

5. Disconnect the flexible cables (CB7, CB8, CB9, CB10 and CB11).
6. Disconnect the flexible cables (C20, C21, C22 and C26).
7. Remove the screws (×5 ➡) and remove the C2-Board.

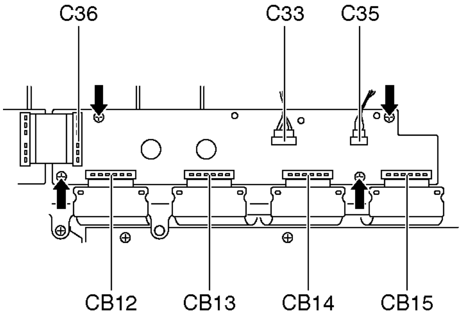

C20
C21
C22
C2-Board
C26
CB7
CB8
CB9
CB10
CB11

7.23. Remove the C3-Board

1. Remove the Side terminal unit assy. (See section 7.12.)
2. Remove the DD-Heat-sink fastening screws (×8 ⇨).
3. Remove the DD-Heat-sink (×4).

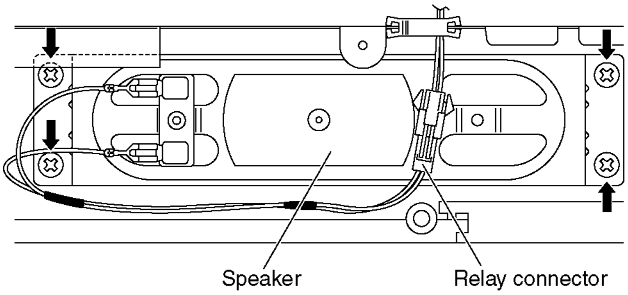

C36
C3-Board
C33
C35
DD-Heat sink

4. Disconnect the flexible cables (CB12, CB13, CB14 and CB15).
5. Disconnect the flexible cable (C36).
6. Disconnect the connectors (C33 and C35).
7. Remove the screws (×4 ➡) and remove the C3-Board.


C36
C33
C35
CB12
CB13
CB14
CB15

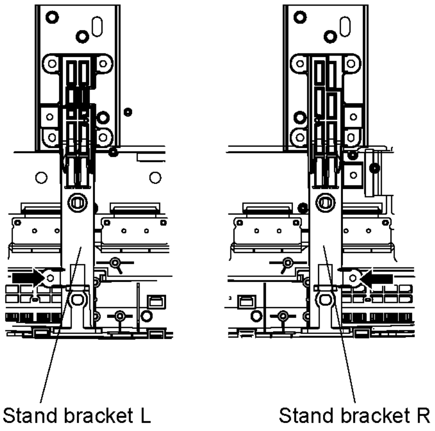
7.24. Remove the Speakers

1. Disconnect the relay connectors
2. Remove the screws (×4 ➡ each) and remove the Speaker (L, R).

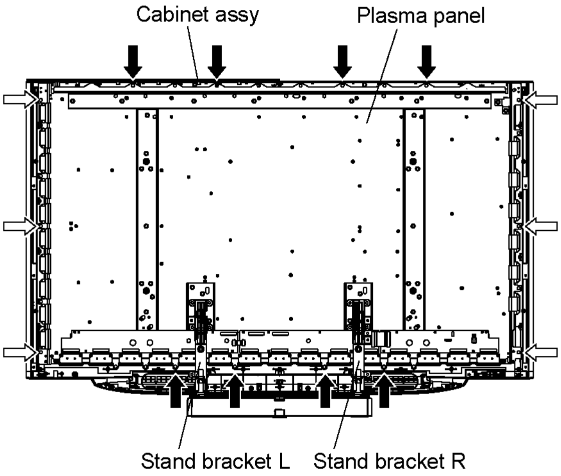

Speaker
Relay connector

7.25. Remove the Plasma panel section from the Cabinet assy (glass)

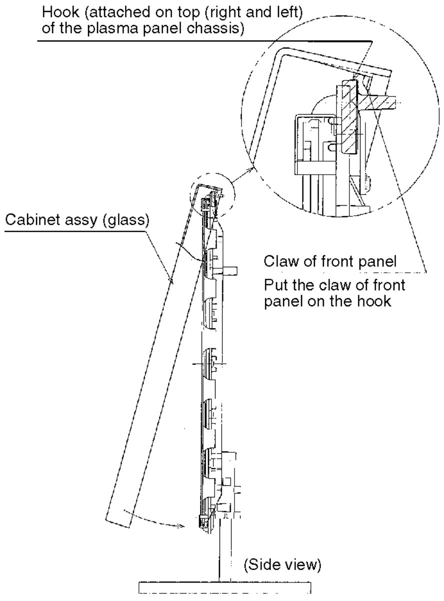
1. Remove the stand brackets (left, right) fastening screw (×1 ➡ each).


Stand bracket L
Stand bracket R

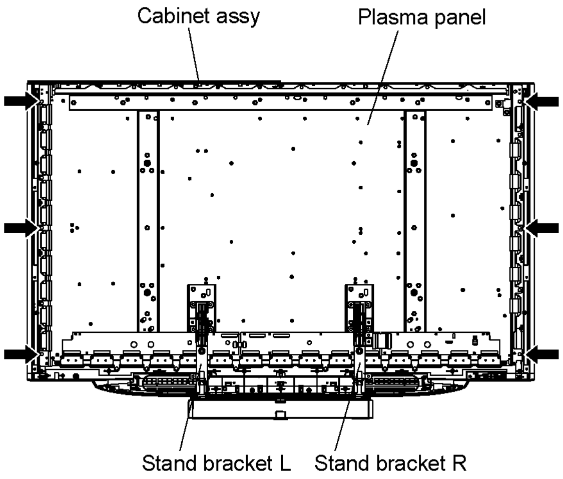
2. Remove the cabinet assy and the plasma panel fastening screws (×8 ➡, ×6 ⇨).

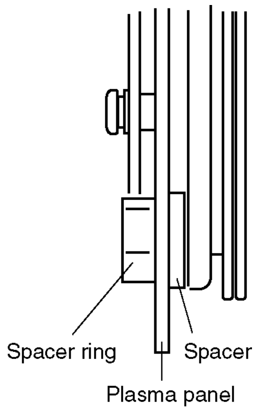

Cabinet assy
Plasma panel
Stand bracket L
Stand bracket R

3. For leaving the plasma panel from the front frame, pull the bottom of the cabinet assy forward, lift, and remove.


Hook (attached on top (right and left) of the plasma panel chassis)
Cabinet assy (glass)
Claw of front panel
Put the claw of front panel on the hook
(Side view)

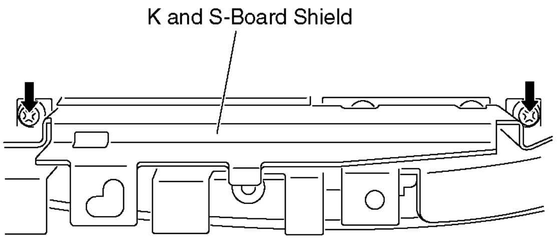
4. Remove the spacers and spacer rings (×6 ➡).


Cabinet assy
Plasma panel
Stand bracket L
Stand bracket R

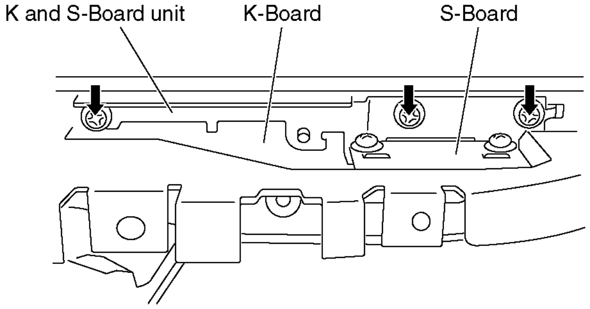

Spacer ring
Spacer
Plasma panel

7.26. Remove the K-Board and S-Board

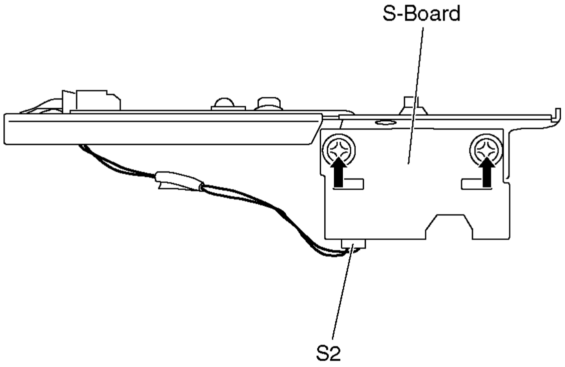
1. Remove the Cabinet assy. (See section 7.25.)
2. Remove the screws (×2 ➡) and remove the K and S-Board shield.



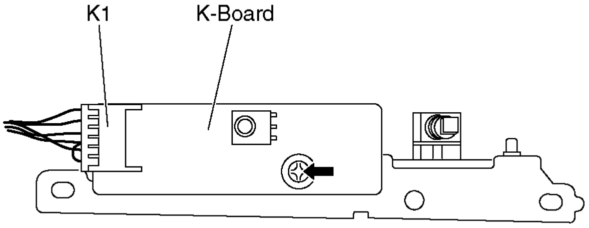
3. Remove the screws (×3 ➡) and remove the K and S-Board unit.



4. Disconnect the connector (S2).
5. Remove the screws (×2 ➡) and remove the S-Board.



6. Disconnect the connector (K1).
7. Remove the screws (×1 ➡) and remove the K-Board.



7.27. Remove the plasma panel (finished)

1. Place the new plasma panel (finished) on the flat surface of the table (covered by a soft cloth), with the plasma panel surface facing downward.
2. Attach the C1-Board, C2-Board and the C3-Board, connect the flexible cables (×15) from the plasma panel to the C1-Board, C2-Board and the C3-Board, and fit the flexible cable holders.
3. Attach the Hooks (left, right) and fit the stand brackets (L, R) to the new plasma panel.
4. Place the plasma panel section on the servicing stand.
5. Attach the cabinet assy and each P.C.Board and so on, to the new plasma panel.

   ***When fitting the cabinet assy, be careful not to allow any debris, dust or handling residue to remain between the front glass and plasma panel.**

8 Measurements and Adjustments

8.1. Adjustment Procedure

8.1.1. Driver Set-up

8.1.1.1. Item / Preparation

1. Input a white signal to plasma video input.
2. Set the picture controls as follows.
   Picture menu: Vivid
   Normal: Set
   Aspect: Full

Caution

1. First perform Vsus adjustment.
2. Confirmation of Vscn voltage should be performed after confirmation of Vad adjustment.
   When Vad= -140V, Voltage of Vscn is 5V ±4V.

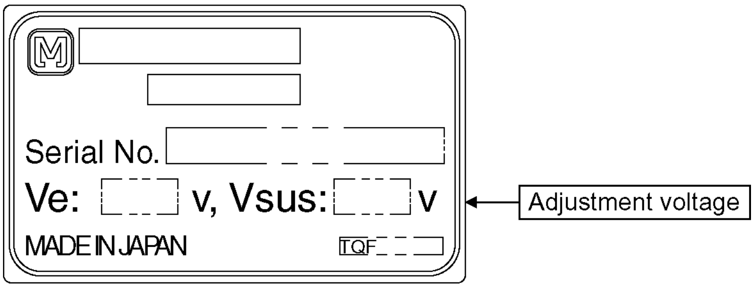
8.1.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.
Check or adjust the following voltages with the multimeter.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
Ve	TPVE (SS)	Ve ± 1V	VR16000 (SS)	*
Vset	TPVSET (SC)	325V ± 7V	Fixed	
Vad	TPVAD (SC)	-140V ± 1V	VR16600 (SC)	
Vscn	TPVSCN (SC)	Vad+145V ± 4V	Fixed	
Vda	TPVDA (SS)	75V + 1V, -2V	Fixed	

*See the Panel label.

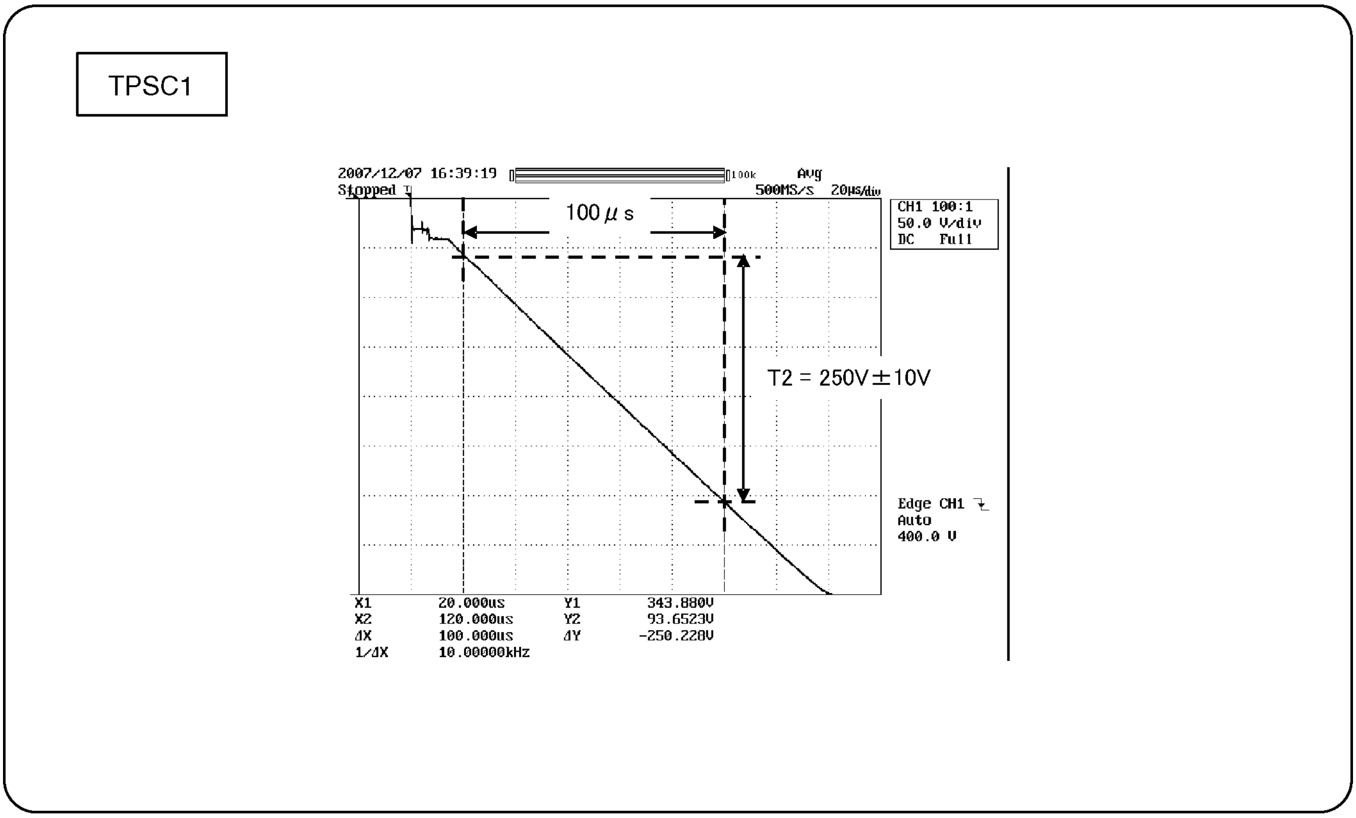
Panel Label information



8.1.2. Initialization Pulse Adjust

1. Input the White signal to plasma video input.
2. Set the picture controls as follows.
   Picture menu : Vivid
   Normal : Set
   Aspect : Full
3. Connect Oscilloscope to TPSC1 (SC).
   Check the voltage (T2) at 100µs period on the down slope.

	Test point	Volume	Level
T2	TPSC1 (SC)	VR16602 (SC)	250 V ± 10 V



```
X1     20.000us     Y1   343.880V
X2     120.000us    Y2   93.6523V
ΔX     100.000us    ΔY   -250.228V
1/ΔX   10.00000kHz
```

8.1.3. P.C.B. (Printed Circuit Board) exchange

8.1.3.1. Caution

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.1.3.2. Quick adjustment after P.C.B. exchange

Adjust the following voltages with the multimeter.

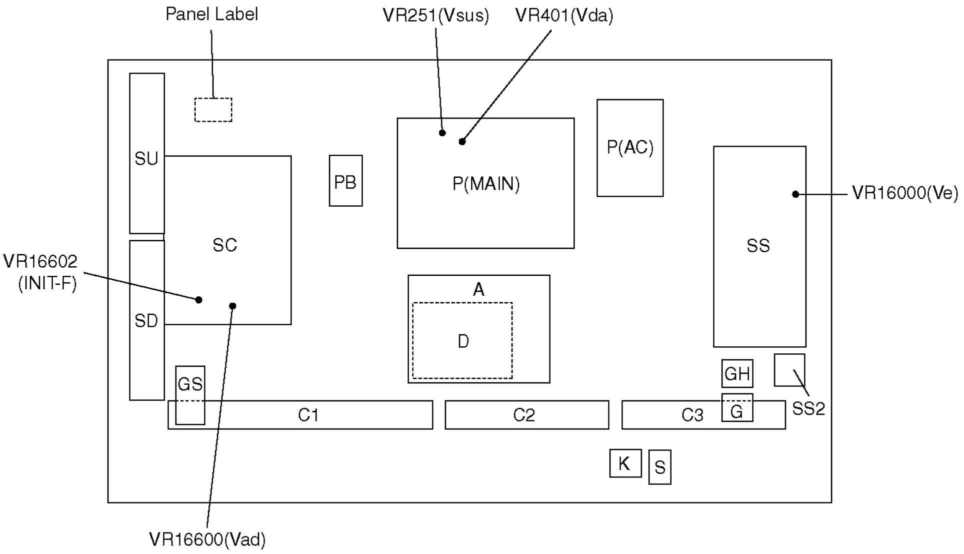
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
SC Board	Vad	TPVAD (SC)	-140V ± 1V	VR16600 (SC)	
SS Board	Ve	TPVE (SS)	Ve ± 1V	VR16000 (SS)	*
A, D Board	White balance and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

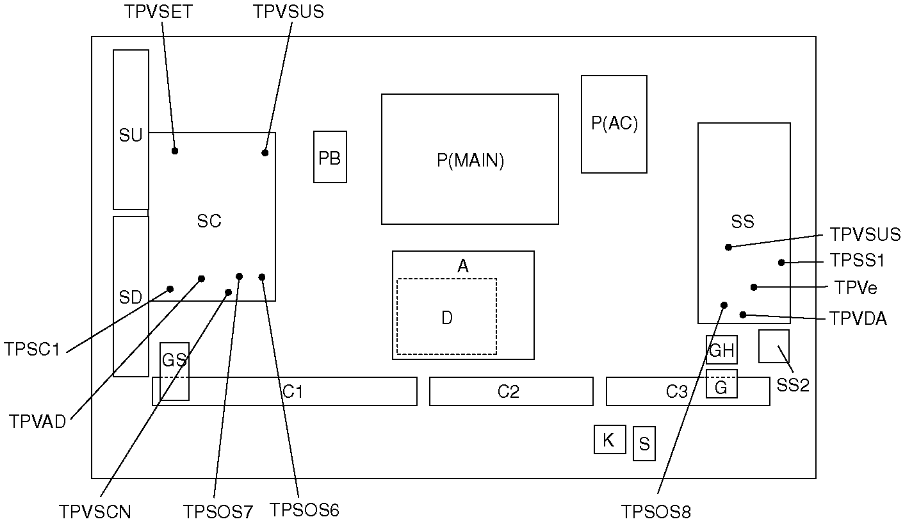
Caution:

Absolutely do not reduce Vsus below Ve not to damage the P.C.B.

8.1.4. Adjustment Volume Location


Panel Label
VR251(Vsus)
VR401(Vda)
SU
PB
P(MAIN)
P(AC)
VR16000(Ve)
SS
SC
VR16602
(INIT-F)
A
D
SD
GS
GH
C1
C2
C3
G
SS2
K
S
VR16600(Vad)

8.1.5. Test Point Location


TPVSET
TPVSUS
SU
PB
P(MAIN)
P(AC)
SC
SS
TPVSUS
TPSS1
TPVe
TPVDA
A
D
SD
TPSC1
GS
GH
SS2
C1
C2
C3
G
TPVAD
K
S
TPVSCN
TPSOS7
TPSOS6
TPSOS8

8.2. Adjustment

8.2.1. White balance adjustment

Name of measuring instrument	Connection	Remarks
• W/B pattern • Color analyzer (Minolta CA-100 or equivalent)	Component input Panel surface	

Procedure	Remarks
• Ensure aging is adequate. • Make sure the front panel to be used on the final set is fitted. • Make sure a color signal is not being shown before adjustment. • Put the color analyzer where there is little color variation. 1. Output a white balance pattern. 2. Check that the color temperature is [Cool]. 3. Set to serviceman mode, WB-ADJ. 4. Set [R-CUT] [G-CUT] [B-CUT] the values written in table 1. 5. Attach the sensor of color analyzer to the center of highlight window. 6. Fix G drive at C0h and adjust [B-DRV] and [R-DRV] so x, y value of color analyzer become the [Color temperature High] in table 2. 7. Increase RGB together so the maximum drive value in RGB becomes FC. That is, set [ALL DRIVE] to FC. Execute adjustment again. When that, the maximum value of R/G/B DRV should be FC, and either R/G/B DRV should be FC. 8. Set color temperature to [Normal]. 9. Set [R-CUT] [G-CUT] [B-CUT] the values written in table 1. 10. Attach the sensor of color analyzer to the center of highlight window. 11. Fix G drive at C0h and adjust [B-DRV] and [R-DRV] so x, y value of color analyzer become the [Color temperature Mid] in table 2. 12. Increase RGB together so the maximum drive value in RGB becomes FC. That is, set [ALL DRIVE] to FC. Execute adjustment again. When that, the maximum value of R/G/B DRV should be FC, and either R/G/B DRV should be FC. 13. Set color temperature to [Warm]. 14. Set [R-CUT] [G-CUT] [B-CUT] the values written in table 1. 15. Attach the sensor of color analyzer to the center of highlight window. 16. Fix G drive at C0h and adjust [B-DRV] and [R-DRV] so x, y value of color analyzer become the [Color temperature Low] in table 2. 17. Increase RGB together so the maximum drive value in RGB becomes FC. That is, set [ALL DRIVE] to FC. Execute adjustment again. When that, the maximum value of R/G/B DRV should be FC, and either R/G/B DRV should be FC. 18. Set color temperature to [Cool]. - adjustment of [Normal] [Warm] by data shift from [Cool] adjust. - For [Normal] [Warm] adjustment, set values that the adjusted value of [Cool] plus the figures wrote below. Normal : R-DRV : -3h G-DRV : 0h B-DRV : -1Bh Warm : R-DRV : 3h G-DRV : 0h B-DRV : -49h 19. Copy values adjusted by HD pattern to the NTSC data area of EEPROM.	

Table 1: R-CUT,G-CUT,B-CUT setting data

Color temperature	R-CUT	G-CUT	B-CUT
High(Cool)	80	80	80
Mid	80	80	80
Low(Warm)	80	80	80

Table 2: W/B adjustment values

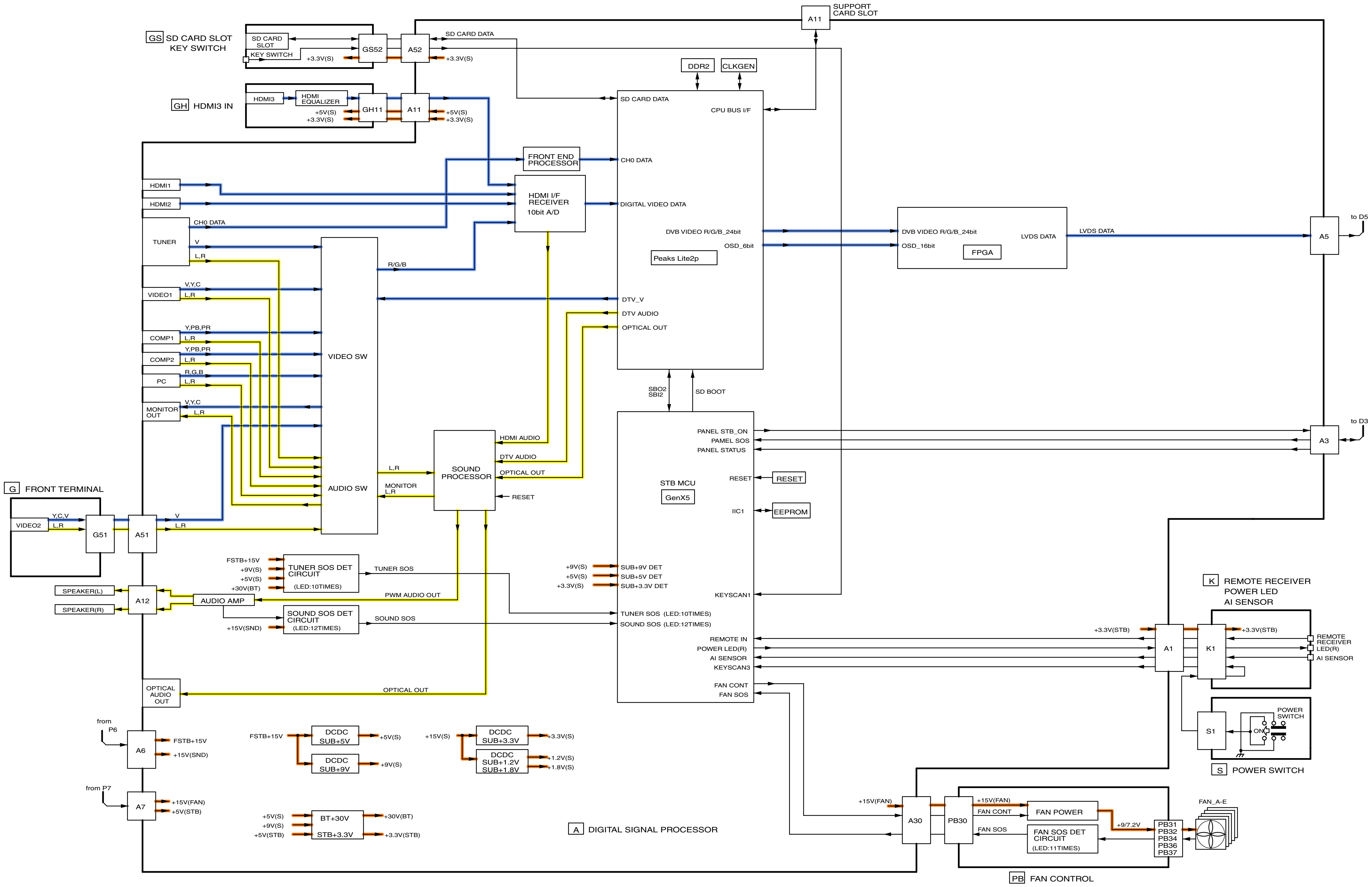
Color temperature	x	y
High(Cool)	0.276	0.276
Mid	0.288	0.296
Low(Warm)	0.313	0.329

Table 3: EEPROM data addresses

SD/ Color temperature High	R-CUTOFF	022C
	G-CUTOFF	022D
	B-CUTOFF	022E
	R-DRIVE	032F
	G-DRIVE	0230
	B-DRIVE	0231
SD/ Color temperature Mid	R-CUTOFF	0232
	G-CUTOFF	0233
	B-CUTOFF	0234
	R-DRIVE	0235
	G-DRIVE	0236
	B-DRIVE	0237
SD/ Color temperature Low	R-CUTOFF	0238
	G-CUTOFF	0239
	B-CUTOFF	023A
	R-DRIVE	023B
	G-DRIVE	023C
	B-DRIVE	023D
HD/ Color temperature High	R-CUTOFF	023E
	G-CUTOFF	023F
	B-CUTOFF	0240
	R-DRIVE	0241
	G-DRIVE	0242
	B-DRIVE	0243
HD/ Color temperature Mid	R-CUTOFF	0244
	G-CUTOFF	0245
	B-CUTOFF	0246
	R-DRIVE	0247
	G-DRIVE	0248
	B-DRIVE	0249
HD/ Color temperature Low	R-CUTOFF	024A
	G-CUTOFF	024B
	B-CUTOFF	024C
	R-DRIVE	024D
	G-DRIVE	024E
	B-DRIVE	024F

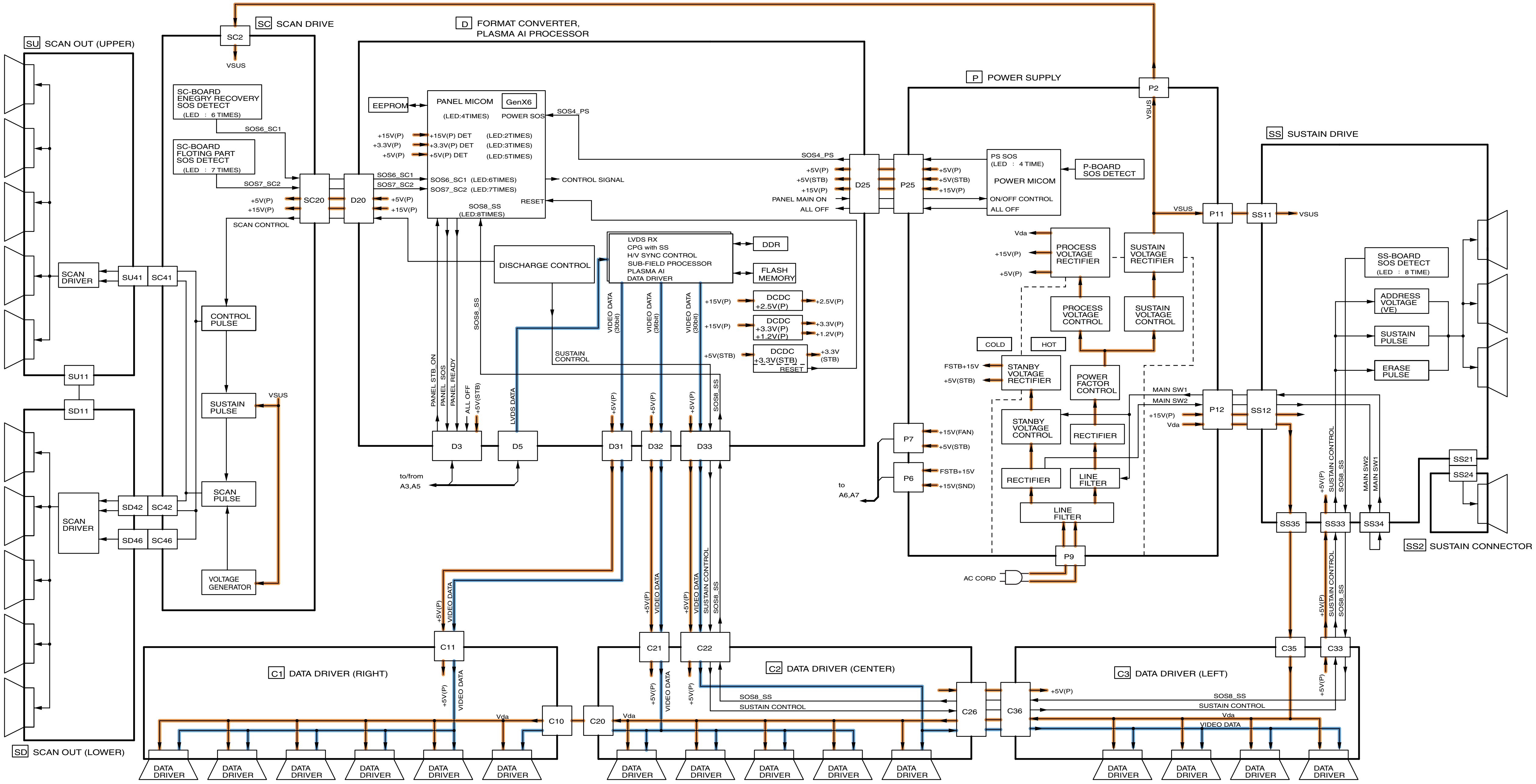
9 Block Diagram

9.1. Block Diagram (1/6)

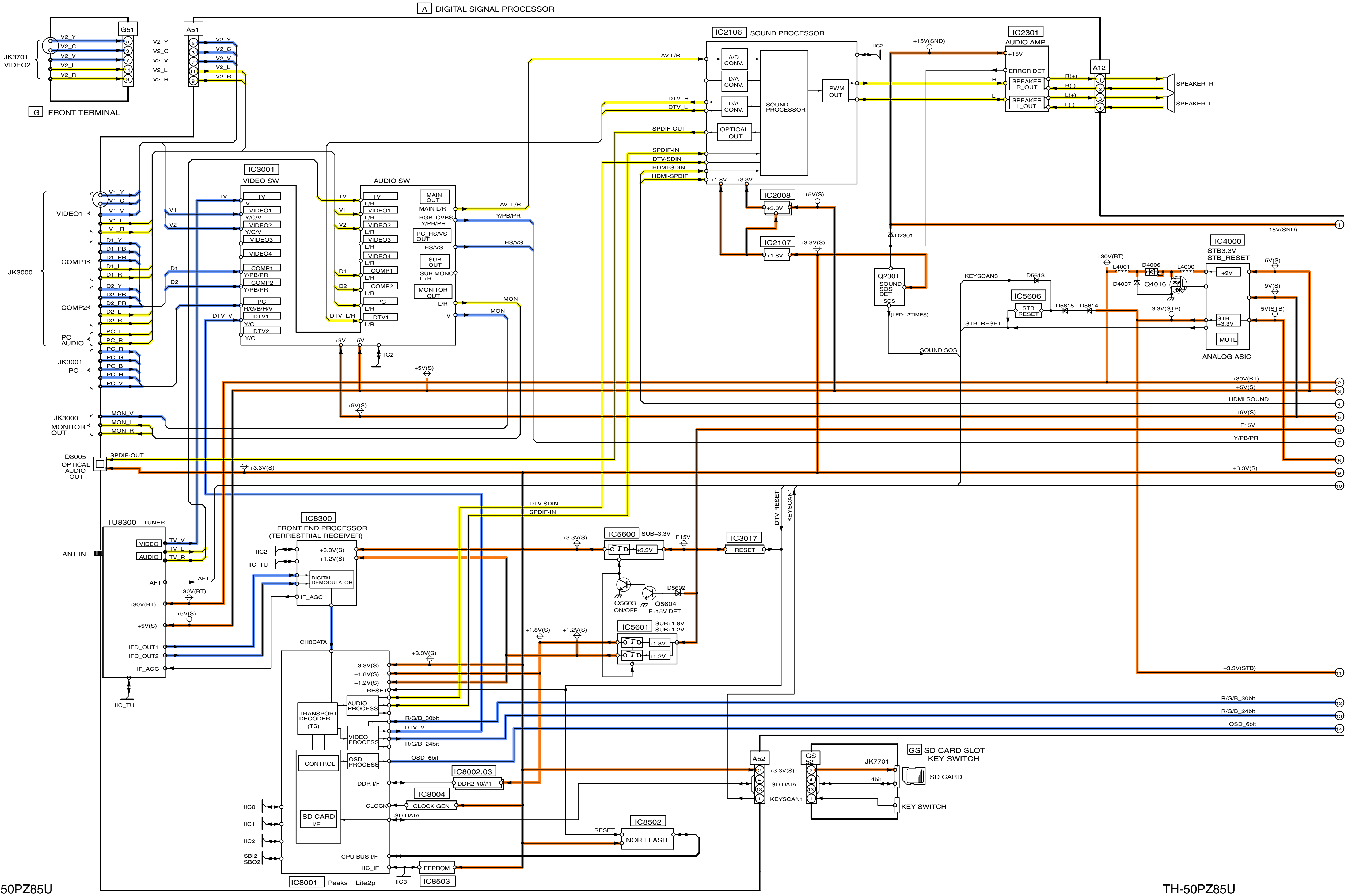


GS SD CARD SLOT
KEY SWITCH
SD CARD SLOT
KEY SWITCH
+3.3V(S)
GS52
A52
SD CARD DATA
+3.3V(S)
A11
SUPPORT CARD SLOT
GH HDMI3 IN
HDMI3
HDMI EQUALIZER
+5V(S)
+3.3V(S)
GH11
A11
+5V(S)
+3.3V(S)
DDR2
CLKGEN
SD CARD DATA
CPU BUS I/F
FRONT END PROCESSOR
CH0 DATA
HDMI I/F RECEIVER
10bit A/D
DIGITAL VIDEO DATA
HDMI1
HDMI2
TUNER
CH0 DATA
V
L,R
R/G/B
DVB VIDEO R/G/B_24bit
OSD_6bit
Peaks Lite2p
DVB VIDEO R/G/B_24bit
OSD_16bit
LVDS DATA
FPGA
LVDS DATA
A5
to D5
VIDEO1
V,Y,C
L,R
DTV_V
DTV AUDIO
OPTICAL OUT
COMP1
Y,PB,PR
L,R
COMP2
Y,PB,PR
L,R
PC
R,G,B
L,R
VIDEO SW
MONITOR OUT
V,Y,C
L,R
SBO2
SBI2
SD BOOT
PANEL STB_ON
PAMEL SOS
PANEL STATUS
A3
to D3
HDMI AUDIO
DTV AUDIO
OPTICAL OUT
RESET
L,R
SOUND PROCESSOR
MONITOR L,R
AUDIO SW
STB MCU
GenX5
RESET
RESET
IIC1
EEPROM
G FRONT TERMINAL
VIDEO2
Y,C,V
L,R
G51
A51
V
L,R
FSTB+15V
+9V(S)
+5V(S)
+30V(BT)
TUNER SOS DET CIRCUIT
(LED:10TIMES)
TUNER SOS
+9V(S)
+5V(S)
+3.3V(S)
SUB+9V DET
SUB+5V DET
SUB+3.3V DET
SPEAKER(L)
SPEAKER(R)
A12
AUDIO AMP
PWM AUDIO OUT
KEYSCAN1
+15V(SND)
SOUND SOS DET CIRCUIT
(LED:12TIMES)
SOUND SOS
TUNER SOS (LED:10TIMES)
SOUND SOS (LED:12TIMES)
K REMOTE RECEIVER
POWER LED
AI SENSOR
+3.3V(STB)
A1
K1
+3.3V(STB)
REMOTE RECEIVER
LED(R)
AI SENSOR
REMOTE IN
POWER LED(R)
AI SENSOR
KEYSCAN3
OPTICAL AUDIO OUT
OPTICAL OUT
FAN CONT
FAN SOS
from P6
A6
FSTB+15V
+15V(SND)
FSTB+15V
DCDC SUB+5V
+5V(S)
DCDC SUB+9V
+9V(S)
+15V(S)
DCDC SUB+3.3V
+3.3V(S)
DCDC SUB+1.2V SUB+1.8V
+1.2V(S)
+1.8V(S)
S1
POWER SWITCH
ON
S POWER SWITCH
from P7
A7
+15V(FAN)
+5V(STB)
+5V(S)
+9V(S)
+5V(STB)
BT+30V
STB+3.3V
+30V(BT)
+3.3V(STB)
A DIGITAL SIGNAL PROCESSOR
+15V(FAN)
A30
PB30
+15V(FAN)
FAN CONT
FAN POWER
FAN SOS
FAN SOS DET CIRCUIT
(LED:11TIMES)
+9/7.2V
PB31
PB32
PB34
PB36
PB37
FAN_A-E
PB FAN CONTROL

9.2. Block Diagram (2/6)

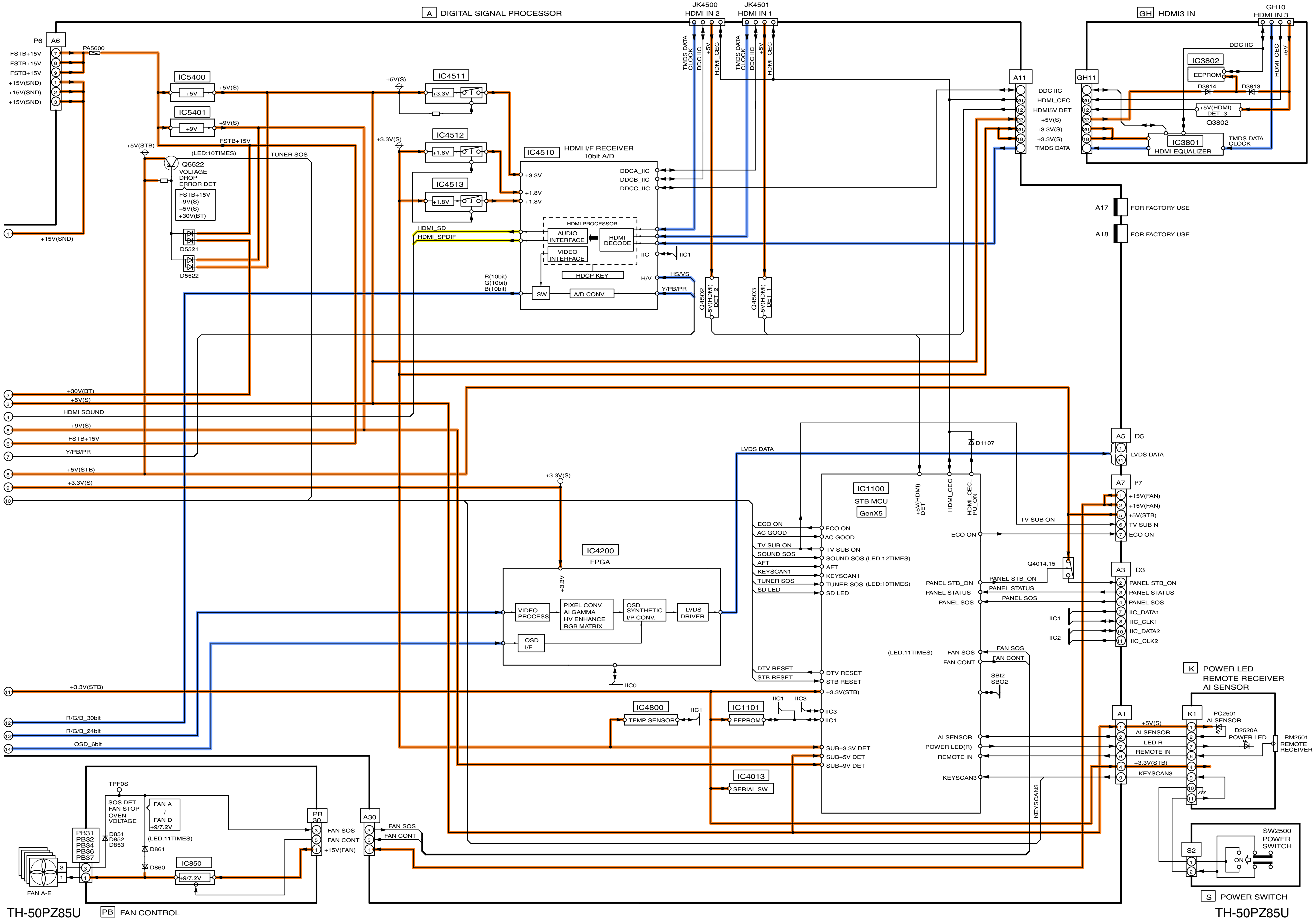

SU SCAN OUT (UPPER)
SC SCAN DRIVE
D FORMAT CONVERTER, PLASMA AI PROCESSOR
P POWER SUPPLY
SS SUSTAIN DRIVE
SS2 SUSTAIN CONNECTOR
SD SCAN OUT (LOWER)
C1 DATA DRIVER (RIGHT)
C2 DATA DRIVER (CENTER)
C3 DATA DRIVER (LEFT)
SC2
VSUS
SC-BOARD ENEGRY RECOVERY SOS DETECT (LED : 6 TIMES)
SOS6_SC1
SC-BOARD FLOTING PART SOS DETECT (LED : 7 TIMES)
SOS7_SC2
+5V(P)
+15V(P)
SC20
D20
SCAN CONTROL
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SCAN DRIVER
SU41
SC41
SU11
SD11
SD42
SC42
SD46
SC46
EEPROM
PANEL MICOM
GenX6
(LED:4TIMES)
POWER SOS
SOS4_PS
+15V(P) DET
+3.3V(P) DET
+5V(P) DET
(LED:2TIMES)
(LED:3TIMES)
(LED:5TIMES)
SOS6_SC1 (LED:6TIMES)
SOS7_SC2 (LED:7TIMES)
SOS8_SS (LED:8TIMES)
RESET
CONTROL SIGNAL
DISCHARGE CONTROL
LVDS RX
CPG with SS
H/V SYNC CONTROL
SUB-FIELD PROCESSOR
PLASMA AI
DATA DRIVER
DDR
FLASH MEMORY
DCDC +2.5V(P)
DCDC +3.3V(P) +1.2V(P)
DCDC +3.3V(STB)
+2.5V(P)
+3.3V(P)
+1.2V(P)
+3.3V (STB)
+5V(STB)
SUSTAIN CONTROL
VIDEO DATA (30bit)
VIDEO DATA (36bit)
PANEL STB_ON
PANEL_SOS
PANEL READY
ALL OFF
+5V(STB)
LVDS DATA
SOS8_SS
D3
D5
D31
D32
D33
to/from A3,A5
D25
P25
+5V(P)
+5V(STB)
+15V(P)
PANEL MAIN ON
ALL OFF
PS SOS (LED : 4 TIME)
POWER MICOM
ON/OFF CONTROL
P-BOARD SOS DETECT
P2
VSUS
Vda
PROCESS VOLTAGE RECTIFIER
SUSTAIN VOLTAGE RECTIFIER
PROCESS VOLTAGE CONTROL
SUSTAIN VOLTAGE CONTROL
COLD
HOT
FSTB+15V
STANBY VOLTAGE RECTIFIER
POWER FACTOR CONTROL
STANBY VOLTAGE CONTROL
RECTIFIER
LINE FILTER
P7
P6
+15V(FAN)
+15V(SND)
to A6,A7
P9
AC CORD
P11
P12
MAIN SW1
MAIN SW2
SS11
SS12
SS-BOARD SOS DETECT (LED : 8 TIME)
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS21
SS24
SS35
SS33
SS34
C11
C10
C20
C21
C22
C26
C36
C35
C33
DATA DRIVER

9.3. Block Diagram (3/6)



A DIGITAL SIGNAL PROCESSOR
G FRONT TERMINAL
JK3701 VIDEO2
G51
A51
V2_Y
V2_C
V2_V
V2_L
V2_R
IC2106 SOUND PROCESSOR
A/D CONV.
D/A CONV.
D/A CONV.
OPTICAL OUT
SOUND PROCESSOR
PWM OUT
AV L/R
DTV_R
DTV_L
SPDIF-OUT
SPDIF-IN
DTV-SDIN
HDMI-SDIN
HDMI-SPDIF
+1.8V
+3.3V
IIC2
+15V(SND)
IC2301 AUDIO AMP
+15V
ERROR DET
SPEAKER R_OUT
SPEAKER L_OUT
R
L
R(+)
R(-)
L(+)
L(-)
A12
SPEAKER_R
SPEAKER_L
IC2008
+5V(S)
IC2107
+3.3V(S)
D2301
Q2301 SOUND SOS DET
SOS
(LED:12TIMES)
SOUND SOS
KEYSCAN3
D5613
IC5606 STB RESET
D5615
D5614
STB_RESET
+30V(BT)
L4001
D4006
L4000
D4007
Q4016
IC4000 STB3.3V STB_RESET
+9V
5V(S)
9V(S)
3.3V(STB)
5V(STB)
STB +3.3V
MUTE
ANALOG ASIC
IC3001 VIDEO SW
AUDIO SW
TV
V
VIDEO1
Y/C/V
VIDEO2
VIDEO3
VIDEO4
COMP1
Y/PB/PR
COMP2
PC
R/G/B/H/V
DTV1
Y/C
DTV2
L/R
MAIN OUT
MAIN L/R
RGB_CVBS Y/PB/PR
PC_HS/VS OUT
HS/VS
SUB OUT
SUB MONO L+R
MONITOR OUT
MON
AV_L/R
Y/PB/PR
+9V
+5V
IIC2
+9V(S)
JK3000
VIDEO1
V1_Y
V1_C
V1_V
V1_L
V1_R
COMP1
D1_Y
D1_PB
D1_PR
D1_L
D1_R
COMP2
D2_Y
D2_PB
D2_PR
D2_L
D2_R
PC AUDIO
PC_L
PC_R
JK3001 PC
PC_R
PC_G
PC_B
PC_H
PC_V
V1
V2
D1
D2
DTV_V
DTV_L/R
JK3000 MONITOR OUT
MON_V
MON_L
MON_R
D3005 OPTICAL AUDIO OUT
SPDIF-OUT
+3.3V(S)
+15V(SND)
+30V(BT)
+5V(S)
HDMI SOUND
+9V(S)
F15V
Y/PB/PR
+3.3V(S)
+3.3V(STB)
R/G/B_30bit
R/G/B_24bit
OSD_6bit
DTV RESET
KEYSCAN1
TU8300 TUNER
ANT IN
VIDEO
AUDIO
TV_V
TV_L
TV_R
AFT
+30V(BT)
+5V(S)
IFD_OUT1
IFD_OUT2
IF_AGC
IIC_TU
IC8300 FRONT END PROCESSOR (TERRESTRIAL RECEIVER)
IIC2
IIC_TU
+3.3V(S)
+1.2V(S)
DIGITAL DEMODULATOR
IF_AGC
CH0DATA
DTV-SDIN
SPDIF-IN
IC5600 SUB+3.3V
F15V
+3.3V
IC3017 RESET
Q5603 ON/OFF
Q5604 F+15V DET
D5692
+1.8V(S)
+1.2V(S)
IC5601 SUB+1.8V SUB+1.2V
+1.8V
+1.2V
+3.3V(S)
+1.8V(S)
+1.2V(S)
RESET
TRANSPORT DECODER (TS)
AUDIO PROCESS
VIDEO PROCESS
OSD PROCESS
R/G/B_30bit
DTV_V
R/G/B_24bit
OSD_6bit
CONTROL
SD CARD I/F
DDR I/F
IC8002,03 DDR2 #0/#1
CLOCK
IC8004 CLOCK GEN
SD DATA
IC8502
RESET
NOR FLASH
IIC0
IIC1
IIC2
SBI2 SBO2
CPU BUS I/F
IIC_IF
EEPROM
IC8001 Peaks Lite2p
IIC3
IC8503
A52
+3.3V(S)
SD DATA
KEYSCAN1
GS 52
JK7701
4bit
GS SD CARD SLOT KEY SWITCH
SD CARD
KEY SWITCH

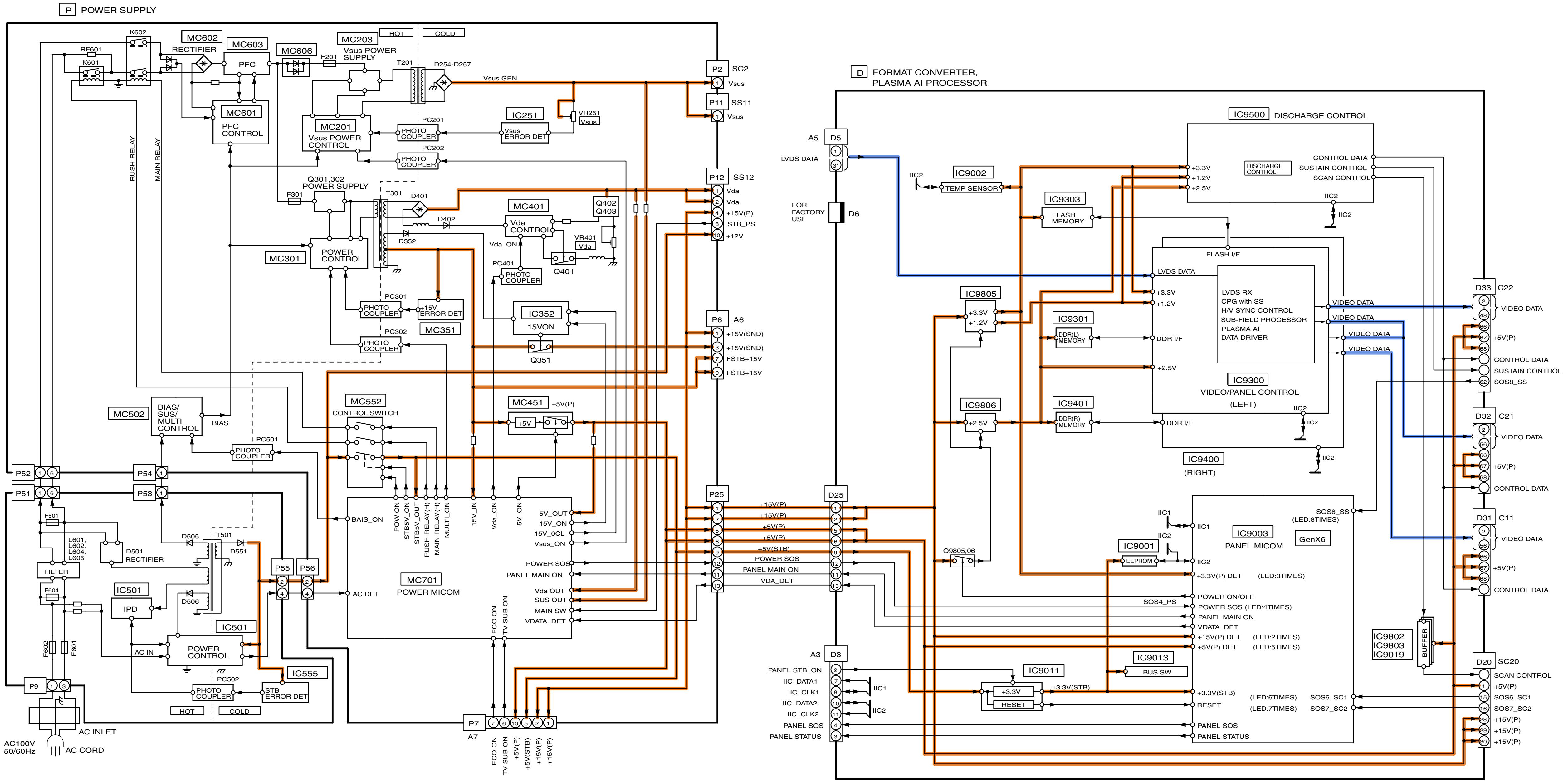
9.4. Block Diagram (4/6)


A DIGITAL SIGNAL PROCESSOR
JK4500 HDMI IN 2
JK4501 HDMI IN 1
TMDS DATA CLOCK
DDC IIC
+5V
HDMI_CEC
P6 A6
FSTB+15V
FSTB+15V
FSTB+15V
+15V(SND)
+15V(SND)
+15V(SND)
PA5600
IC5400
+5V
+5V(S)
IC5401
+9V
+9V(S)
FSTB+15V
+5V(STB)
(LED:10TIMES)
TUNER SOS
Q5522 VOLTAGE DROP ERROR DET
FSTB+15V
+9V(S)
+5V(S)
+30V(BT)
D5521
D5522
+15V(SND)
IC4511
+3.3V
+5V(S)
+3.3V(S)
IC4512
+1.8V
IC4513
+1.8V
IC4510 HDMI I/F RECEIVER 10bit A/D
+3.3V
+1.8V
+1.8V
DDCA_IIC
DDCB_IIC
DDCC_IIC
HDMI PROCESSOR
AUDIO INTERFACE
HDMI DECODE
VIDEO INTERFACE
HDMI_SD
HDMI_SPDIF
IIC
IIC1
HDCP KEY
H/V
HS/VS
Y/PB/PR
R(10bit)
G(10bit)
B(10bit)
SW
A/D CONV.
Q4502 +5V(HDMI) DET_2
Q4503 +5V(HDMI) DET_1
A11
DDC IIC
HDMI_CEC
HDMI5V DET
+5V(S)
+3.3V(S)
+3.3V(S)
TMDS DATA
GH HDMI3 IN
GH10 HDMI IN 3
GH11
DDC IIC
IC3802
EEPROM
D3814
D3813
+5V(HDMI) DET_3
Q3802
IC3801
HDMI EQUALIZER
TMDS DATA CLOCK
HDMI_CEC
+5V
A17 FOR FACTORY USE
A18 FOR FACTORY USE
+30V(BT)
+5V(S)
HDMI SOUND
+9V(S)
FSTB+15V
Y/PB/PR
+5V(STB)
+3.3V(S)
+3.3V(S)
IC4200
FPGA
+3.3V
VIDEO PROCESS
PIXEL CONV. AI GAMMA HV ENHANCE RGB MATRIX
OSD SYNTHETIC I/P CONV.
LVDS DRIVER
OSD I/F
IIC0
+3.3V(STB)
R/G/B_30bit
R/G/B_24bit
OSD_6bit
LVDS DATA
D1107
A5 D5
LVDS DATA
IC1100
STB MCU
GenX5
+5V(HDMI) DET
HDMI_CEC
HDMI_CEC_ PU_ON
ECO ON
AC GOOD
TV SUB ON
SOUND SOS
AFT
KEYSCAN1
TUNER SOS
SD LED
ECO ON
AC GOOD
TV SUB ON
SOUND SOS (LED:12TIMES)
AFT
KEYSCAN1
TUNER SOS (LED:10TIMES)
SD LED
TV SUB ON
ECO ON
A7 P7
+15V(FAN)
+15V(FAN)
+5V(STB)
TV SUB N
ECO ON
Q4014,15
PANEL STB_ON
PANEL STATUS
PANEL SOS
A3 D3
PANEL STB_ON
PANEL STATUS
PANEL SOS
IIC1
IIC2
IIC_DATA1
IIC_CLK1
IIC_DATA2
IIC_CLK2
(LED:11TIMES)
FAN SOS
FAN CONT
SBI2
SBO2
DTV RESET
STB RESET
DTV RESET
STB RESET
+3.3V(STB)
IC4800
TEMP SENSOR
IIC1
IC1101
EEPROM
IIC1
IIC3
IIC3
IIC1
SUB+3.3V DET
SUB+5V DET
SUB+9V DET
IC4013
SERIAL SW
AI SENSOR
POWER LED(R)
REMOTE IN
KEYSCAN3
KEYSCAN3
A1
+5V(S)
AI SENSOR
LED R
REMOTE IN
+3.3V(STB)
KEYSCAN3
K POWER LED REMOTE RECEIVER AI SENSOR
K1
PC2501 AI SENSOR
D2520A POWER LED
RM2501 REMOTE RECEIVER
S2
SW2500 POWER SWITCH
ON
S POWER SWITCH
TPF0S
SOS DET FAN STOP OVEN VOLTAGE
FAN A / FAN D +9/7.2V
(LED:11TIMES)
D851
D852
D853
D861
D860
IC850
+9/7.2V
PB31
PB32
PB34
PB36
PB37
PB30
FAN SOS
FAN CONT
+15V(FAN)
A30
FAN SOS
FAN CONT
FAN A-E
PB FAN CONTROL

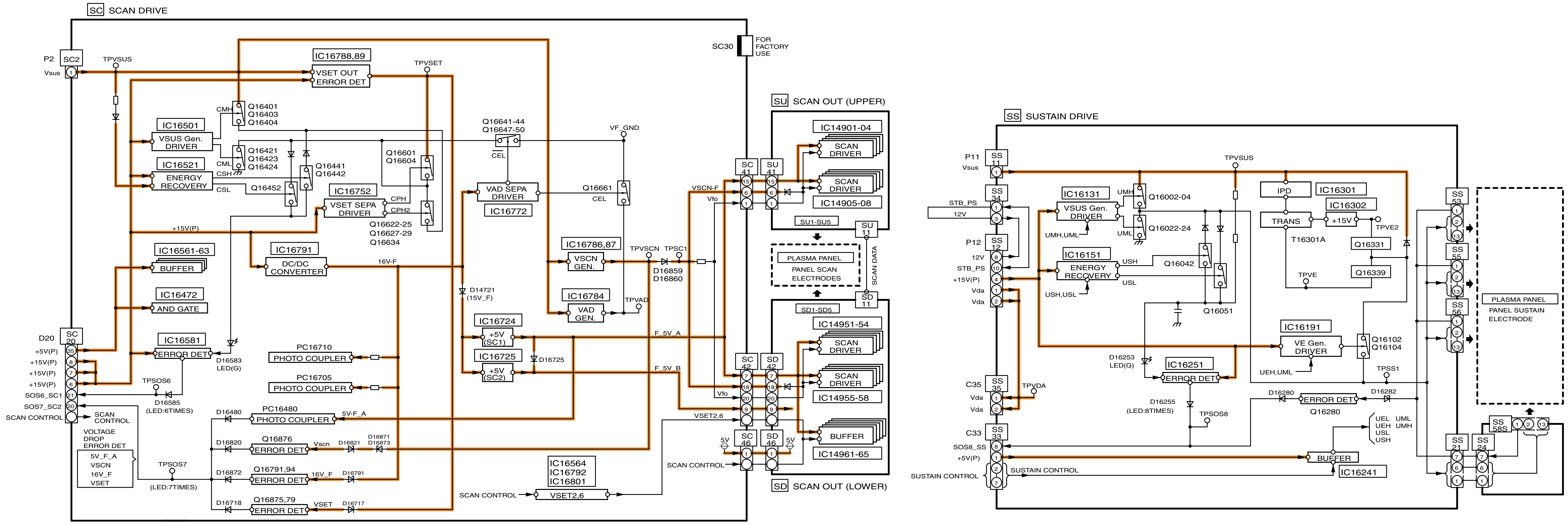
TH-50PZ85U
Block (4/6) Diagram

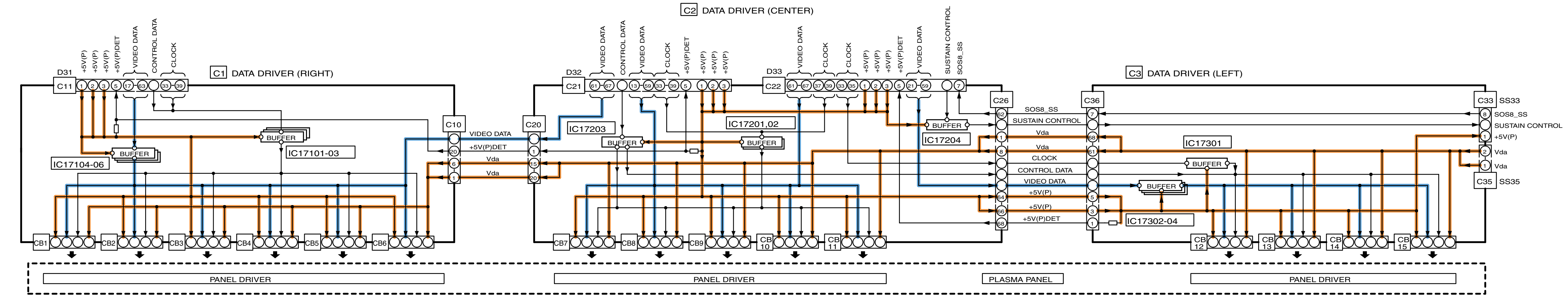
TH-50PZ85U
Block (4/6) Diagram

9.5. Block Diagram (5/6)


P POWER SUPPLY
K602
RF601
K601
MC602
RECTIFIER
MC603
PFC
MC606
F201
MC203
Vsus POWER SUPPLY
HOT
COLD
T201
D254-D257
Vsus GEN.
MC601
PFC CONTROL
MC201
Vsus POWER CONTROL
PC201
PHOTO COUPLER
PC202
PHOTO COUPLER
IC251
Vsus ERROR DET
VR251
Vsus
RUSH RELAY
MAIN RELAY
Q301,302
POWER SUPPLY
F301
T301
D401
D402
D352
MC301
POWER CONTROL
MC401
Vda CONTROL
Vda_ON
Q402
Q403
VR401
Vda
Q401
PC401
PHOTO COUPLER
PC301
PHOTO COUPLER
+15V ERROR DET
MC351
PC302
PHOTO COUPLER
IC352
15VON
Q351
P2 SC2
Vsus
P11 SS11
Vsus
P12 SS12
Vda
Vda
+15V(P)
STB_PS
+12V
P6 A6
+15V(SND)
+15V(SND)
FSTB+15V
FSTB+15V
MC502
BIAS/ SUS/ MULTI CONTROL
BIAS
PC501
PHOTO COUPLER
MC552
CONTROL SWITCH
MC451
+5V(P)
+5V
P52
P51
P54
P53
F501
L601, L602, L604, L605
D501 RECTIFIER
D505
T501
D551
FILTER
F604
IC501
IPD
D506
IC501
AC IN
POWER CONTROL
PC502
PHOTO COUPLER
STB ERROR DET
IC555
HOT
COLD
F602
F601
P9
AC INLET
AC100V 50/60Hz
AC CORD
P55
P56
BAIS_ON
AC DET
POW ON
STB5V_ON
STB5V_OUT
RUSH RELAY(H)
MAIN RELAY(H)
MULTI_ON
15V_IN
Vda_ON
5V_ON
5V_OUT
15V_ON
15V_OCL
Vsus_ON
POWER SOS
PANEL MAIN ON
MC701
POWER MICOM
Vda OUT
SUS OUT
MAIN SW
VDATA_DET
ECO ON
TV SUB ON
P7
A7
ECO ON
TV SUB ON
+5V(P)
+5V(STB)
+15V(P)
+15V(P)
P25
+15V(P)
+15V(P)
+5V(P)
+5V(P)
+5V(STB)
POWER SOS
PANEL MAIN ON
VDA_DET
D FORMAT CONVERTER, PLASMA AI PROCESSOR
A5
D5
LVDS DATA
FOR FACTORY USE
D6
IIC2
IC9002
TEMP SENSOR
IC9303
FLASH MEMORY
IC9500 DISCHARGE CONTROL
+3.3V
+1.2V
+2.5V
DISCHARGE CONTROL
CONTROL DATA
SUSTAIN CONTROL
SCAN CONTROL
IIC2
IIC2
FLASH I/F
LVDS DATA
+3.3V
+1.2V
LVDS RX
CPG with SS
H/V SYNC CONTROL
SUB-FIELD PROCESSOR
PLASMA AI
DATA DRIVER
IC9805
+3.3V
+1.2V
IC9301
DDR(L) MEMORY
DDR I/F
+2.5V
IC9300
VIDEO/PANEL CONTROL
(LEFT)
VIDEO DATA
VIDEO DATA
VIDEO DATA
VIDEO DATA
IC9806
+2.5V
IC9401
DDR(R) MEMORY
DDR I/F
IIC2
IIC2
IC9400
(RIGHT)
D33 C22
VIDEO DATA
+5V(P)
CONTROL DATA
SUSTAIN CONTROL
SOS8_SS
D32 C21
VIDEO DATA
+5V(P)
CONTROL DATA
D31 C11
VIDEO DATA
+5V(P)
CONTROL DATA
D25
IIC1
IIC2
IC9001
EEPROM
Q9805,06
IC9003
PANEL MICOM
GenX6
SOS8_SS
(LED:8TIMES)
IIC1
IIC2
+3.3V(P) DET
(LED:3TIMES)
POWER ON/OFF
SOS4_PS
POWER SOS (LED:4TIMES)
PANEL MAIN ON
VDATA_DET
+15V(P) DET
(LED:2TIMES)
+5V(P) DET
(LED:5TIMES)
IC9802
IC9803
IC9019
BUFFER
A3
D3
PANEL STB_ON
IIC_DATA1
IIC_CLK1
IIC_DATA2
IIC_CLK2
PANEL SOS
PANEL STATUS
IIC1
IIC2
IC9011
+3.3V
RESET
+3.3V(STB)
IC9013
BUS SW
+3.3V(STB)
RESET
(LED:6TIMES)
(LED:7TIMES)
SOS6_SC1
SOS7_SC2
PANEL SOS
PANEL STATUS
D20 SC20
SCAN CONTROL
+5V(P)
SOS6_SC1
SOS7_SC2
+15V(P)
+15V(P)
+15V(P)

9.6. Block Diagram (6/6)


SC SCAN DRIVE
P2
SC2
Vsus
TPVSUS
IC16788,89
VSET OUT
ERROR DET
TPVSET
SC30
FOR FACTORY USE
IC16501
VSUS Gen. DRIVER
IC16521
ENERGY RECOVERY
Q16401
Q16403
Q16404
Q16421
Q16423
Q16424
Q16441
Q16442
Q16452
Q16641-44
Q16647-50
Q16601
Q16604
VF_GND
VAD SEPA DRIVER
IC16772
Q16661
IC16752
VSET SEPA DRIVER
Q16622-25
Q16627-29
Q16634
+15V(P)
IC16561-63
BUFFER
IC16791
DC/DC CONVERTER
16V-F
IC16472
AND GATE
IC16786,87
VSCN GEN.
IC16784
VAD GEN.
TPVSCN
TPSC1
D16859
D16860
TPVAD
D14721 (15V_F)
IC16724
+5V (SC1)
IC16725
+5V (SC2)
D16725
F_5V_A
F_5V_B
IC16581
ERROR DET
D16583 LED(G)
PC16710
PHOTO COUPLER
PC16705
PHOTO COUPLER
D20
SC 20
+5V(P)
+15V(P)
SOS6_SC1
SOS7_SC2
SCAN CONTROL
TPSOS6
D16585 (LED:6TIMES)
VOLTAGE DROP ERROR DET
5V_F_A
VSCN
16V_F
VSET
TPSOS7
(LED:7TIMES)
D16480
PC16480
PHOTO COUPLER
5V-F_A
D16820
Q16876
ERROR DET
Vscn
D16821
D16871
D16873
D16872
Q16791,94
16V_F
D16791
D16718
Q16875,79
D16717
IC16564
IC16792
IC16801
VSET2,6
SCAN CONTROL
VSCN-F
Vfo
SC 41
SU 41
SC 42
SD 42
SC 46
SD 46
5V
SU SCAN OUT (UPPER)
IC14901-04
SCAN DRIVER
IC14905-08
SU1-SU5
SU 11
PLASMA PANEL
PANEL SCAN ELECTRODES
SCAN DATA
SD 11
SD1-SD5
IC14951-54
SCAN DRIVER
IC14955-58
BUFFER
IC14961-65
SD SCAN OUT (LOWER)
SS SUSTAIN DRIVE
P11
SS 11
Vsus
TPVSUS
SS 34
STB_PS
12V
P12
SS 12
+15V(P)
Vda
IC16131
VSUS Gen. DRIVER
UMH
UML
UMH,UML
Q16002-04
Q16022-24
IC16151
ENERGY RECOVERY
USH
USL
USH,USL
Q16042
Q16051
IPD
TRANS
T16301A
IC16301
IC16302
+15V
TPVE2
Q16331
Q16339
TPVE
IC16191
VE Gen. DRIVER
UEH,UML
Q16102
Q16104
TPSS1
D16253 LED(G)
IC16251
ERROR DET
D16255 (LED:8TIMES)
TPSOS8
D16280
ERROR DET
Q16280
D16282
UEL UML
UEH UMH
USL
USH
SS 35
TPVDA
SS 33
SOS8_SS
SUSTAIN CONTROL
BUFFER
IC16241
SS 53
SS 55
SS 56
SS 21
SS 24
SS 58S
PLASMA PANEL
PANEL SUSTAIN ELECTRODE


C2 DATA DRIVER (CENTER)
C1 DATA DRIVER (RIGHT)
C3 DATA DRIVER (LEFT)
D31
C11
+5V(P)
+5V(P)DET
VIDEO DATA
CONTROL DATA
CLOCK
IC17104-06
BUFFER
IC17101-03
C10
VIDEO DATA
+5V(P)DET
Vda
C20
D32
C21
IC17203
IC17201,02
D33
C22
IC17204
SUSTAIN CONTROL
SOS8_SS
C26
C36
SOS8_SS
SUSTAIN CONTROL
Vda
CLOCK
CONTROL DATA
VIDEO DATA
+5V(P)
+5V(P)DET
IC17301
IC17302-04
C33
SS33
C35
SS35
CB1
CB2
CB3
CB4
CB5
CB6
CB7
CB8
CB9
CB 10
CB 11
CB 12
CB 13
CB 14
CB 15
PANEL DRIVER
PANEL DRIVER
PLASMA PANEL
PANEL DRIVER

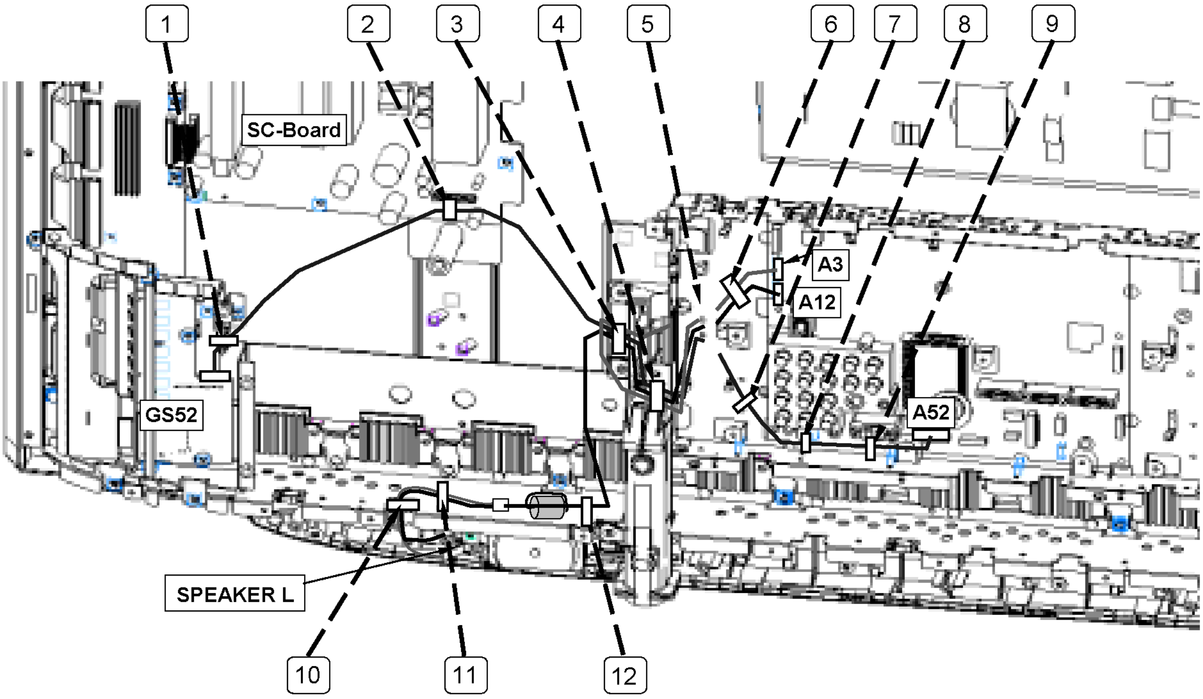
10 Wiring Connection Diagram

10.1. Caution statement.

Caution:

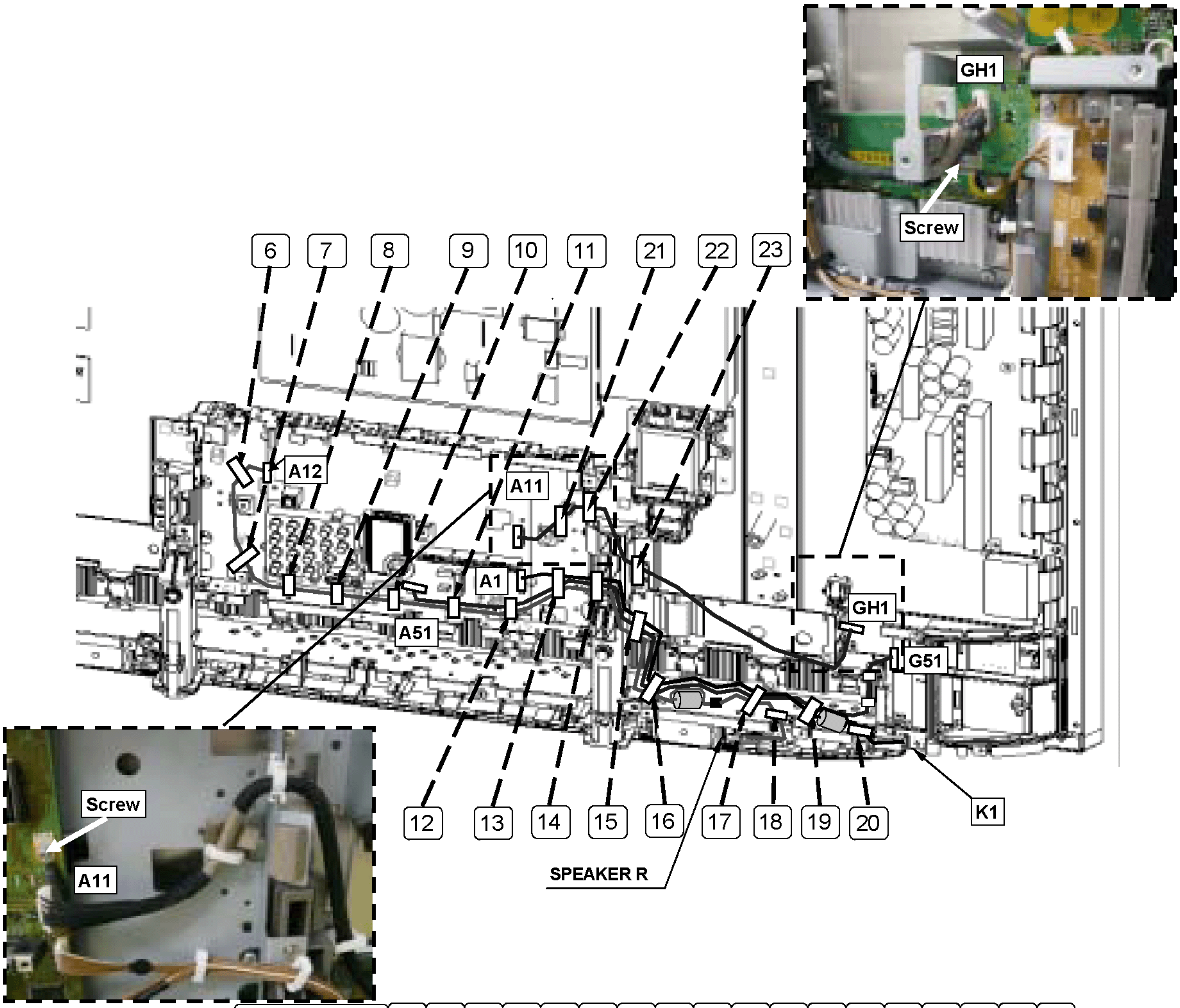
Please confirm that all flexible cables are assembled correctly.
Also make sure that they are locked in the connectors.
Verify by giving the flexible cables a very slight pull.

10.2. Wiring (1)


1
2
3
4
5
6
7
8
9
SC-Board
A3
A12
GS52
A52
SPEAKER L
10
11
12

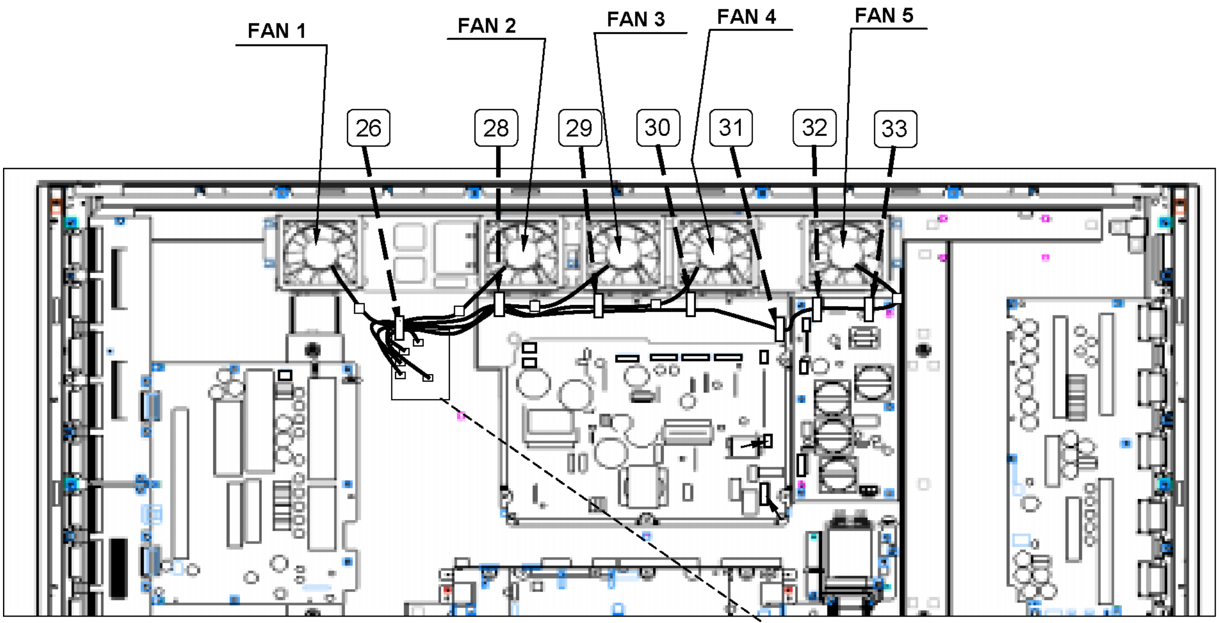
CONNECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13
GS52 - A52	○	○	○	○	○	○							
RELAY-SP_L										○	○		
A12-RELAY			○	○	○	○						○	
D3 - A3			○	○	○	○							

10.3. Wiring (2)

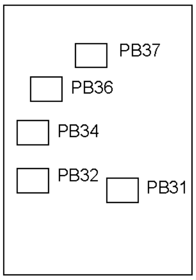

GH1
Screw
6
7
8
9
10
11
21
22
23
A12
A11
A1
A51
GH1
G51
12
13
14
15
16
17
18
19
20
K1
SPEAKER R
Screw
A11

CONNECTOR	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RELAY-SPR												○	○					
A12-RELAY	○	○	○	○	○	○	○	○	○	○	○							
A51-G51						○	○	○	○	○	○	○		○				
K1-A1/S2								○	○	○	○	○		○	○			
A11-GH11																○	○	○

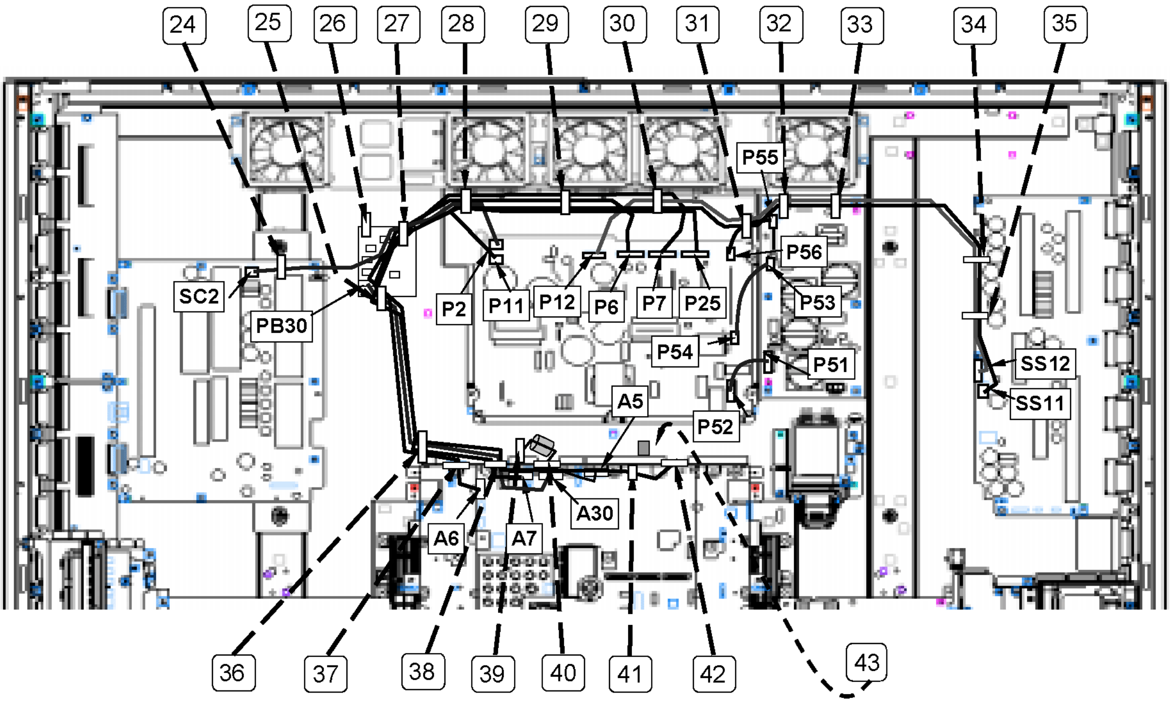
10.4. Wiring (3)


FAN 1
FAN 2
FAN 3
FAN 4
FAN 5
26
28
29
30
31
32
33

CONNECTOR	26	28	29	30	31	32	33
FAN1 - PB37	○						
FAN2 - PB36	○						
FAN3 - PB34	○	○					
FAN4 - PB32	○	○	○				
FAN5 - PB31	○	○	○	○	○	○	○


PB37
PB36
PB34
PB32
PB31

10.5. Wiring (4)


24
25
26
27
28
29
30
31
32
33
34
35
P55
P56
SC2
PB30
P2
P11
P12
P6
P7
P25
P53
P54
P51
SS12
SS11
A5
P52
A30
A6
A7
36
37
38
39
40
41
42
43

CONNECTOR	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
A30-PB30		○											○		○					
P7-A7		○		○	○	○	○						○		○					
P51-P52																				
P53-P54																				
P55-P56								○												
P6-A6		○		○	○	○							○	○						
P12-SS12							○	○	○	○	○	○								
P2-SC2	○			○	○															
P11-SS11					○	○	○	○	○	○	○	○								
D5-A5																○	○			
D25-P25		○		○	○	○	○						○		○			○	○	○

11 Schematic Diagram

11.1. Schematic Diagram Note

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

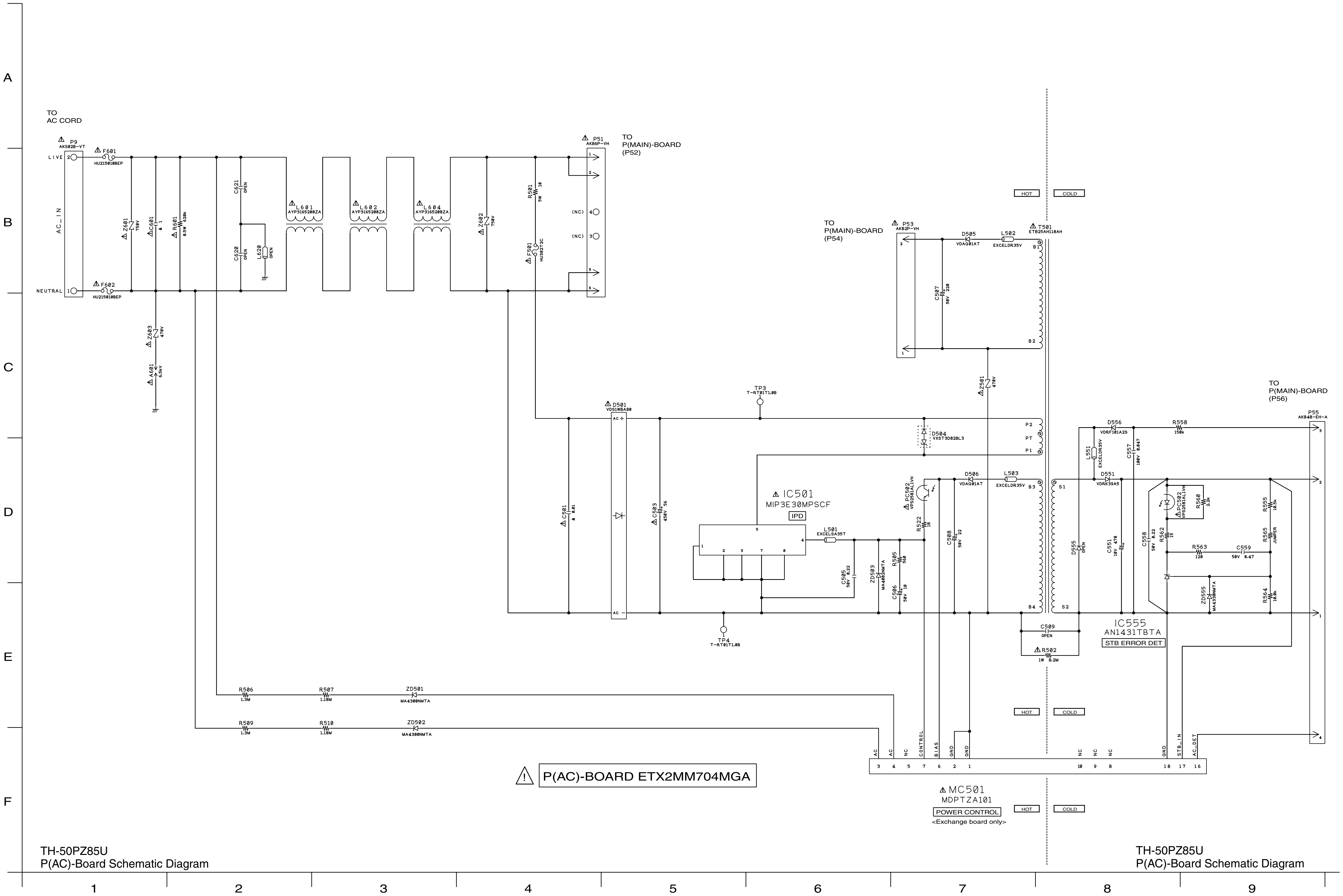
Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

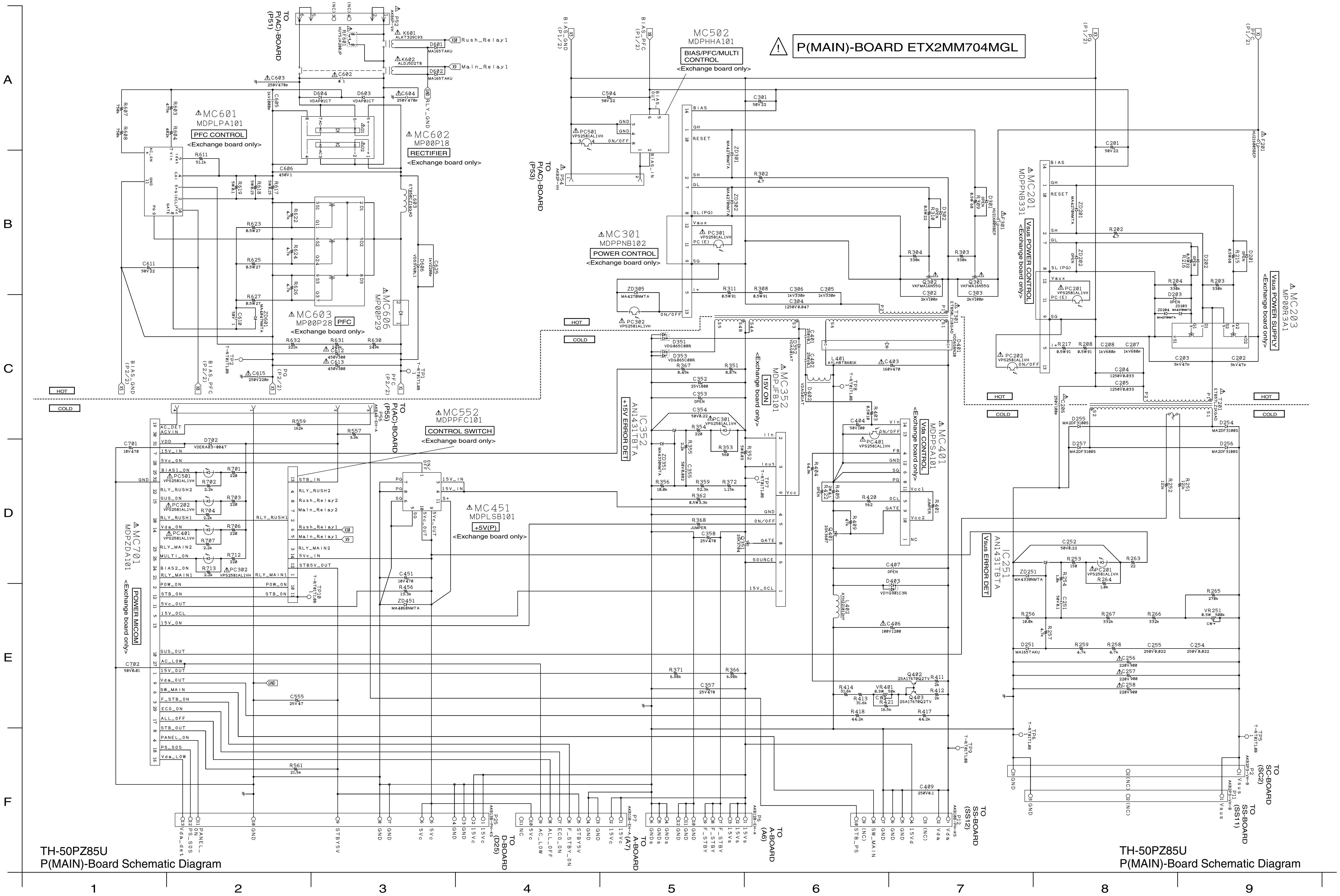
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

11.2. P(AC)-Board Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO
AC CORD
P9
AKS02B-VT
LIVE
NEUTRAL
AC_IN
F601
HU215010BEP
F602
HU215010BEP
Z601
750V
C601
1
R601
0.5W 620k
Z603
470V
A601
6.5kV
C621
OPEN
C620
OPEN
L620
OPEN
L601
AYP3165208ZA
L602
AYP3165208ZA
L604
AYP3165208ZA
Z602
750V
R501
5W 10
F501
HU382T2C
P51
AKB6P-VH
(NC)
(NC)
TO
P(MAIN)-BOARD
(P52)
HOT
COLD
TO
P(MAIN)-BOARD
(P54)
P53
AKB2P-VH
D505
VDAG01AT
L502
EXCELDR35V
T501
ETB25AH118AH
B1
B2
C507
50V 220
Z501
470V
TP3
T-RT01T1.0B
D501
VDS1WBA80
AC +
AC −
C501
0.01
C503
450V 56
D504
VXST3D82BL3
P2
PT
P1
IC501
MIP3E30MPSCF
IPD
L501
EXCELSA35T
C505
50V 0.22
ZD503
MA4082NMTA
R505
560
C506
50V 10
PC502
VPS2581AL1VH
R522
18
D506
VDAG01AT
L503
EXCELDR35V
B3
B4
C508
50V 22
TP4
T-RT01T1.0B
S1
S2
D555
OPEN
C509
OPEN
R502
1W 8.2M
TO
P(MAIN)-BOARD
(P56)
P55
AKB4B-EH-A
D556
VDRF101A2S
R558
150k
L551
EXCELDR35V
C557
100V 0.047
D551
VDRK39A5
C551
10V 470
C558
50V 0.22
R562
15
PC502
VPS2581AL1VH
R560
2.2k
R563
120
C559
50V 0.47
R555
10.5k
R565
JUMPER
ZD555
MA4330NMTA
R564
10.0k
IC555
AN1431TBTA
STB ERROR DET
R506
1.3M
R507
1.18M
ZD501
MA4300NMTA
R509
1.3M
R510
1.18M
ZD502
MA4300NMTA
AC
AC
NC
CONTROL
BIAS
GND
GND
NC
NC
NC
GND
STB_IN
AC_DET
3 4 5 7 6 2 1 10 9 8 18 17 16
P(AC)-BOARD ETX2MM704MGA
MC501
MDPTZA101
POWER CONTROL
<Exchange board only>
TH-50PZ85U
P(AC)-Board Schematic Diagram
TH-50PZ85U
P(AC)-Board Schematic Diagram

11.3. P(MAIN)-Board Schematic Diagram

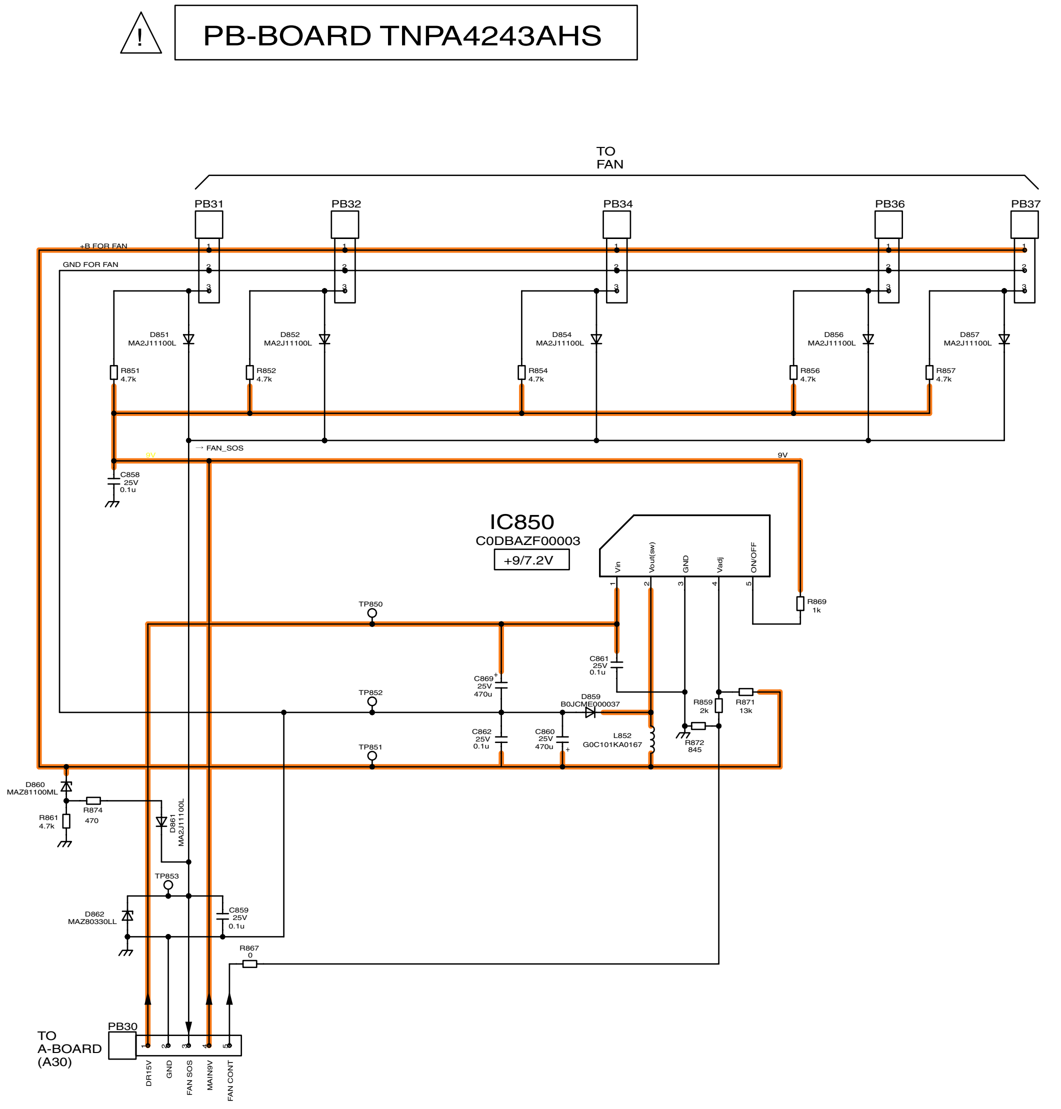


P(MAIN)-BOARD ETX2MM704MGL
MC601
MDPLPA101
PFC CONTROL
<Exchange board only>
MC602
MP00P18
RECTIFIER
<Exchange board only>
MC603
MP00P28
PFC
<Exchange board only>
MC606
MP00P29
MC502
MDPHHA101
BIAS/PFC/MULTI CONTROL
<Exchange board only>
MC301
MDPPNB102
POWER CONTROL
<Exchange board only>
MC201
MDPPNB331
Vsus POWER CONTROL
<Exchange board only>
MC203
MP00R3A1
Vsus POWER SUPPLY
<Exchange board only>
MC352
MDPJFB101
15V ON
<Exchange board only>
IC352
AN1431TBTA
+15V ERROR DET
MC401
MDPPSA101
Vda CONTROL
<Exchange board only>
IC251
AN1431TBTA
Vsus ERROR DET
MC552
MDPPFC101
CONTROL SWITCH
<Exchange board only>
MC451
MDPLSB101
+5V(P)
<Exchange board only>
MC701
MDPZDA101
POWER MICOM
<Exchange board only>
TO P(AC)-BOARD (P51)
TO P(AC)-BOARD (P53)
TO P(AC)-BOARD (P55)
TO D-BOARD (D25)
TO A-BOARD (A7)
TO A-BOARD (A6)
TO SS-BOARD (SS12)
TO SS-BOARD (SS11)
TO SC-BOARD (SC2)
HOT
COLD
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-50PZ85U
P(MAIN)-Board Schematic Diagram

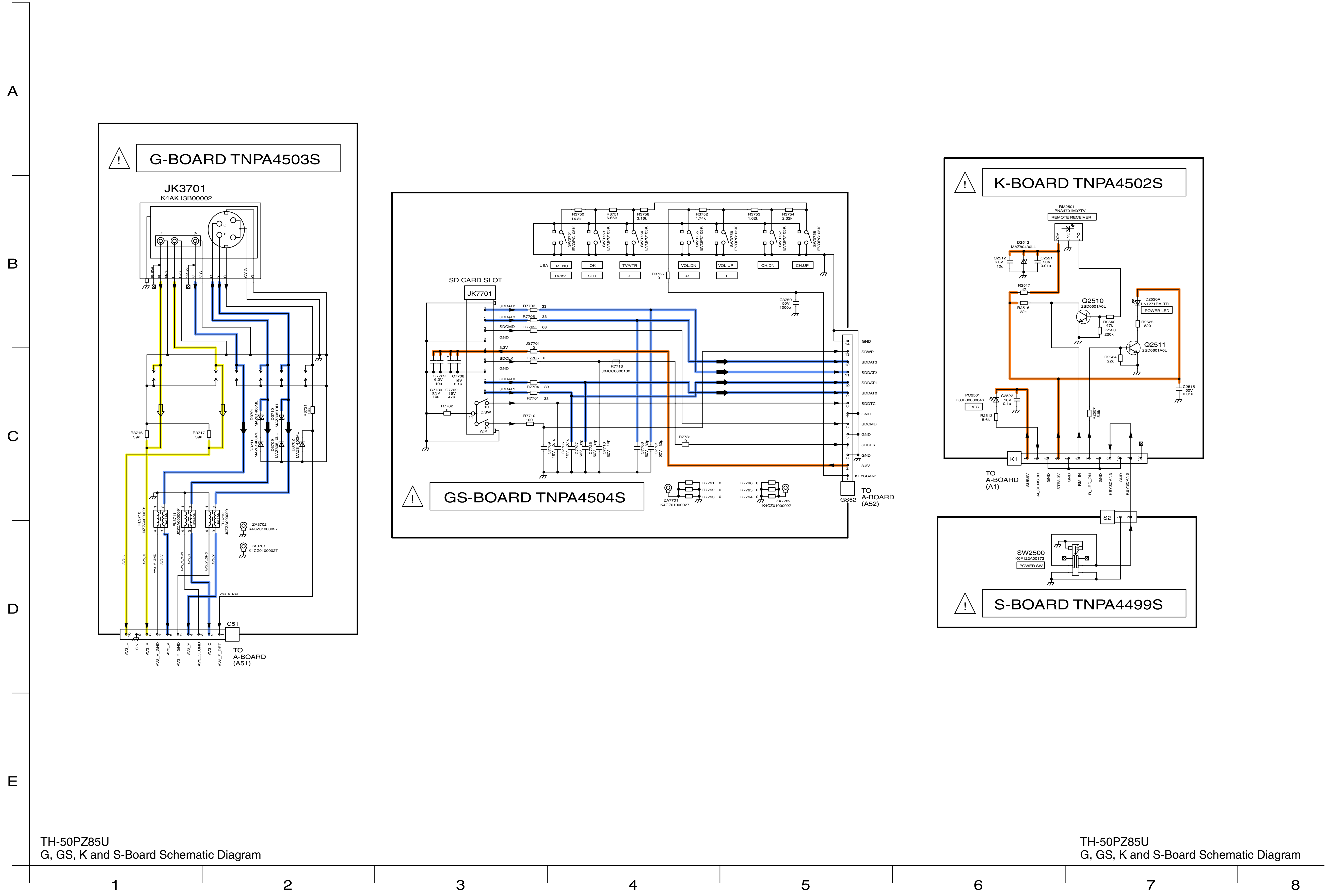
TH-50PZ85U
P(MAIN)-Board Schematic Diagram

11.4. PB-Board Schematic Diagram



A
B
C
D
E
PB-BOARD TNPA4243AHS
TO
FAN
PB31
PB32
PB34
PB36
PB37
+B FOR FAN
GND FOR FAN
1
2
3
D851
MA2J11100L
D852
MA2J11100L
D854
MA2J11100L
D856
MA2J11100L
D857
MA2J11100L
R851
4.7k
R852
4.7k
R854
4.7k
R856
4.7k
R857
4.7k
→ FAN_SOS
9V
9V
C858
25V
0.1u
IC850
C0DBAZF00003
+9/7.2V
Vin
Vout(sw)
GND
Vadj
ON/OFF
1
2
3
4
5
R869
1k
TP850
TP852
TP851
C869
25V
470u
C861
25V
0.1u
D859
B0JCME000037
C862
25V
0.1u
C860
25V
470u
L852
G0C101KA0167
R859
2k
R871
13k
R872
845
D860
MAZ81100ML
R874
470
R861
4.7k
D861
MA2J11100L
TP853
D862
MAZ80330LL
C859
25V
0.1u
R867
0
TO
A-BOARD
(A30)
PB30
1
2
3
4
5
DR15V
GND
FAN SOS
MAIN9V
FAN CONT
1
2
3
4
5
6
7
8

11.5. G, GS, K and S-Board Schematic Diagram

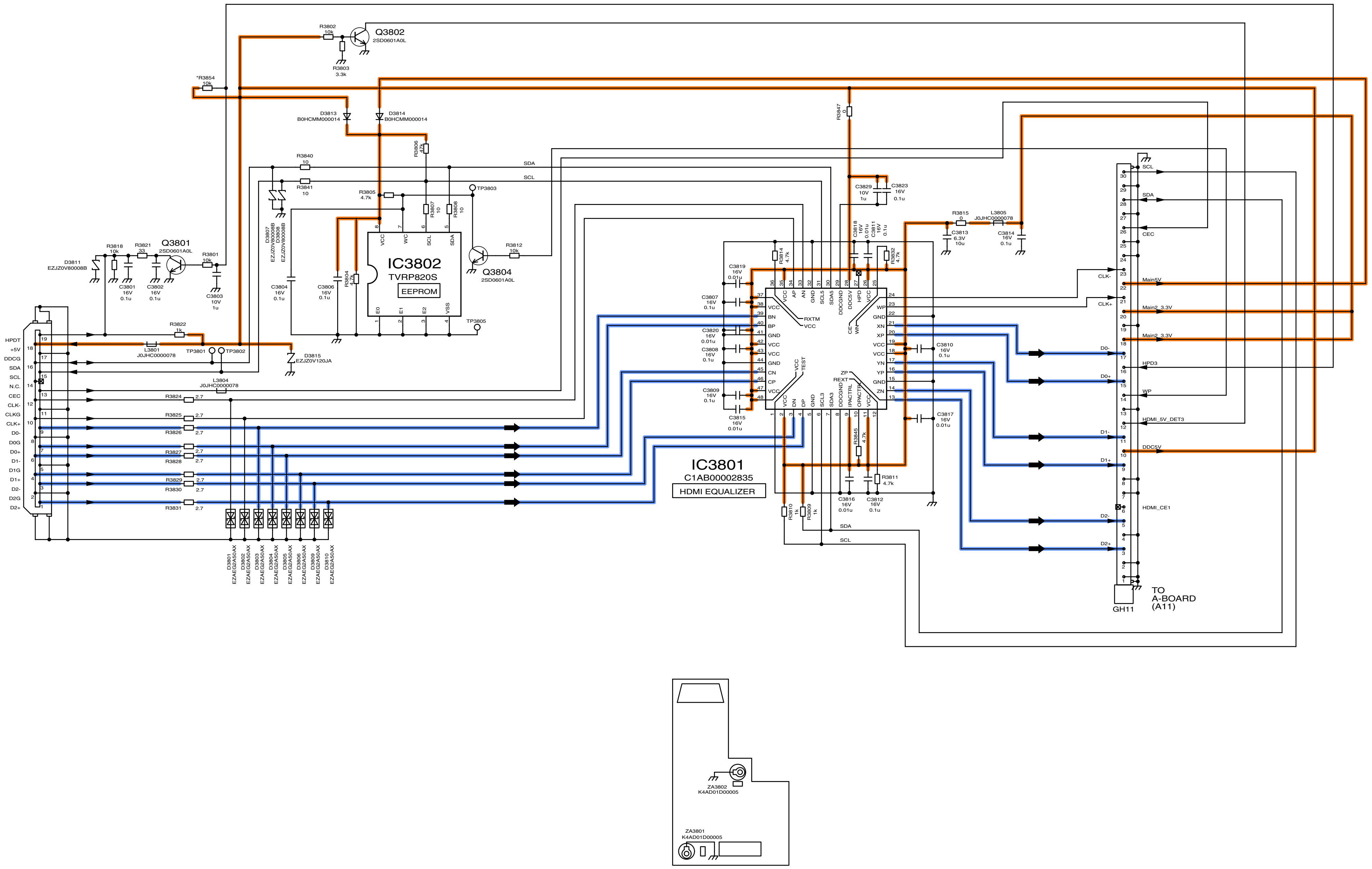

A
B
C
D
E
G-BOARD TNPA4503S
JK3701
K4AK13B00002
R3716
39k
R3717
39k
ZA3702
K4CZ01000027
ZA3701
K4CZ01000027
GS1
AV3_L
GND
AV3_R
AV3_V_GND
AV3_V
AV3_Y_GND
AV3_Y
AV3_C_GND
AV3_C
AV3_S_DET
TO
A-BOARD
(A51)
GS-BOARD TNPA4504S
SD CARD SLOT
JK7701
SDDAT2
SDDAT3
SDCMD
GND
3.3V
SDCLK
SDDAT0
SDDAT1
D.SW
W.P.
R3750
14.3k
R3751
6.65k
R3758
3.16k
R3752
1.74k
R3753
1.62k
R3754
2.32k
USA
MENU
TV/AV
OK
STR
TV/VTR
VOL.DN
VOL.UP
F
CH.DN
CH.UP
R3756
0
C3750
50V
1000p
R7713
J0JCC0000100
R7731
0
R7791
R7792
R7793
R7796
R7795
R7794
ZA7701
K4CZ01000027
ZA7702
K4CZ01000027
GND
SDWP
SDDAT3
SDDAT2
SDDAT1
SDDAT0
SDDTC
GND
SDCMD
GND
SDCLK
GND
3.3V
KEYSCAN1
GS52
TO
A-BOARD
(A52)
K-BOARD TNPA4502S
RM2501
PNA4701M07TV
REMOTE RECEIVER
D2512
MAZ80430LL
C2512
6.3V
10u
C2521
50V
0.01u
R2517
47
R2516
22k
Q2510
2SD0601A0L
R2542
47k
R2520
220k
D2520A
LN1271RALTR
POWER LED
R2525
820
Q2511
2SD0601A0L
R2524
22k
C2515
50V
0.01u
PC2501
B3JB00000046
CATS
C2522
16V
0.1u
R2513
5.6k
R2557
5.6k
K1
TO
A-BOARD
(A1)
SUB5V
AI_SENSOR
GND
STB3.3V
GND
RM_IN
R_LED_ON
GND
KEYSCAN3
GND
KEYSCAN0
S2
SW2500
K0F122A00172
POWER SW
S-BOARD TNPA4499S
1
2
3
4
5
6
7
8

TH-50PZ85U
G, GS, K and S-Board Schematic Diagram

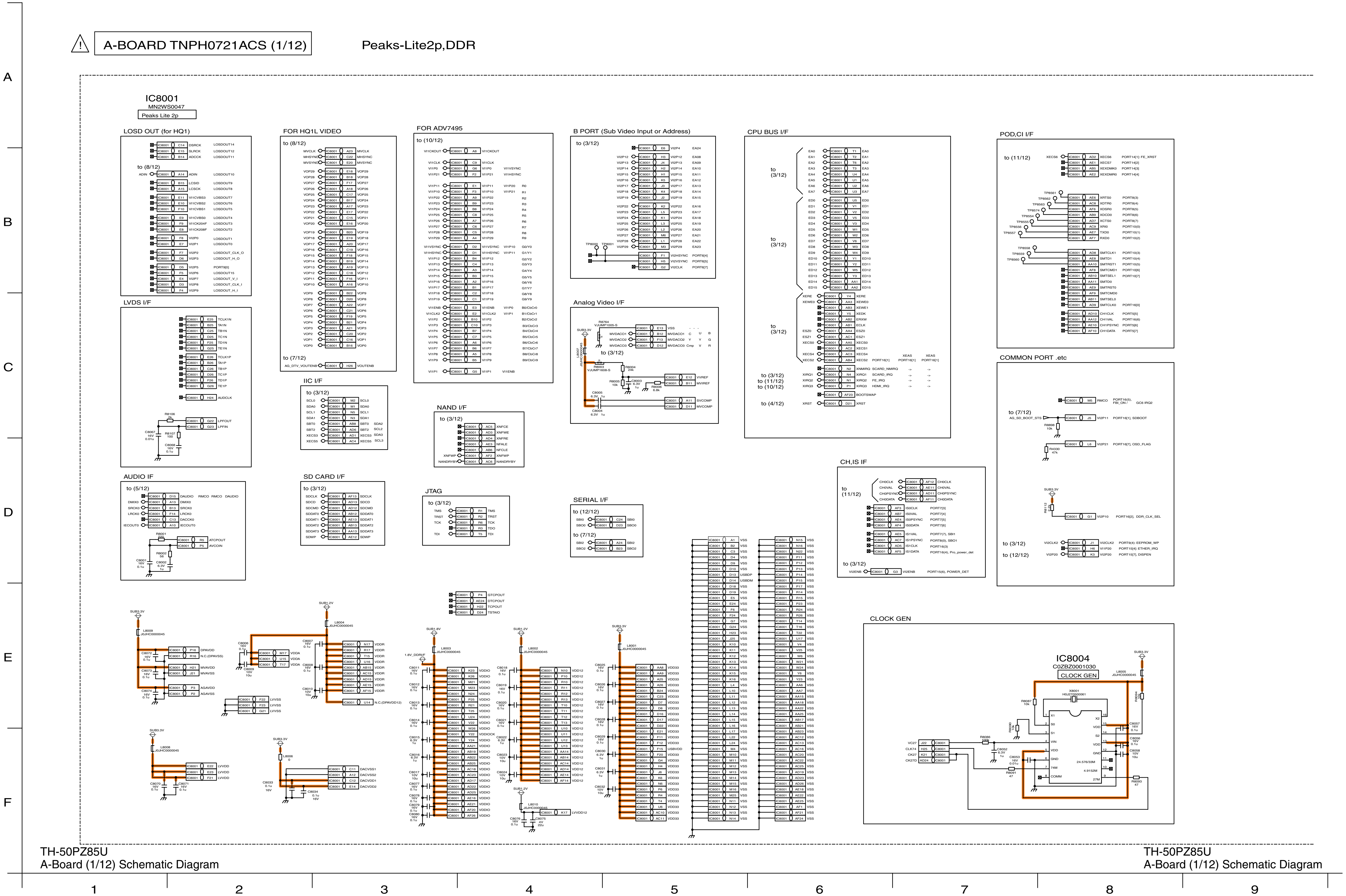
TH-50PZ85U
G, GS, K and S-Board Schematic Diagram

11.6. GH-Board Schematic Diagram

⚠ GH-BOARD TNPA4506S


Q3802
2SD0601A0L
R3802 10k
R3803 3.3k
*R3854 10k
D3813 B0HCMM000014
D3814 B0HCMM000014
R3806 10k
R3840 10
R3841 10
R3805 4.7k
TP3803
SDA
SCL
IC3802
TVRP820S
EEPROM
VCC
WC
SCL
SDA
E0
E1
E2
VSS
R3807 10
R3808 10
R3812 10k
Q3804
2SD0601A0L
TP3805
R3804
C3804 16V 0.1u
C3806 16V 0.1u
D3807 EZJZ0V80008B
D3808 EZJZ0V80008B
D3811 EZJZ0V80008B
R3818 10k
R3821 33
Q3801
2SD0601A0L
R3801 10k
C3801 16V 0.1u
C3802 16V 0.1u
C3803 10V 1u
R3822 1k
L3801 J0JHC0000078
TP3801
TP3802
D3815 EZJZ0V120JA
L3804 J0JHC0000078
R3824 2.7
R3825 2.7
R3826 2.7
R3827 2.7
R3828 2.7
R3829 2.7
R3830 2.7
R3831 2.7
GH10
K1FA119E0013
HDMI IN 3
HPDT
+5V
DDCG
SDA
SCL
N.C.
CEC
CLK-
CLKG
CLK+
D0-
D0G
D0+
D1-
D1G
D1+
D2-
D2G
D2+
D3801 EZAEG2A50AX
D3802 EZAEG2A50AX
D3803 EZAEG2A50AX
D3804 EZAEG2A50AX
D3805 EZAEG2A50AX
D3806 EZAEG2A50AX
D3809 EZAEG2A50AX
D3810 EZAEG2A50AX
IC3801
C1AB00002835
HDMI EQUALIZER
C3819 16V 0.01u
C3807 16V 0.1u
C3820 16V 0.01u
C3808 16V 0.1u
C3809 16V 0.1u
C3815 16V 0.01u
C3810 16V 0.1u
C3817 16V 0.01u
C3816 16V 0.01u
C3812 16V 0.1u
C3818 16V 0.01u
C3811 16V 0.1u
C3829 10V 1u
C3823 16V 0.1u
R3847
R3814 4.7k
R3832 4.7k
R3845 4.7k
R3811 4.7k
R3810 1k
R3809 1k
R3815 0
L3805 J0JHC0000078
C3813 6.3V 10u
C3814 16V 0.1u
VCC
BN
BP
GND
CN
CP
AP
AN
SCL3
SDA3
DDCGND
DDC5V
HPD
WP
XN
XP
YN
YP
ZN
ZP
REXT
RXTM
TEST
PACTEL
SCL
SDA
GH11
TO A-BOARD (A11)
Main5V
Main2_3.3V
HPD3
HDMI_5V_DET3
DDC5V
HDMI_CE1
CEC
ZA3802
K4AD01D00005
ZA3801
K4AD01D00005

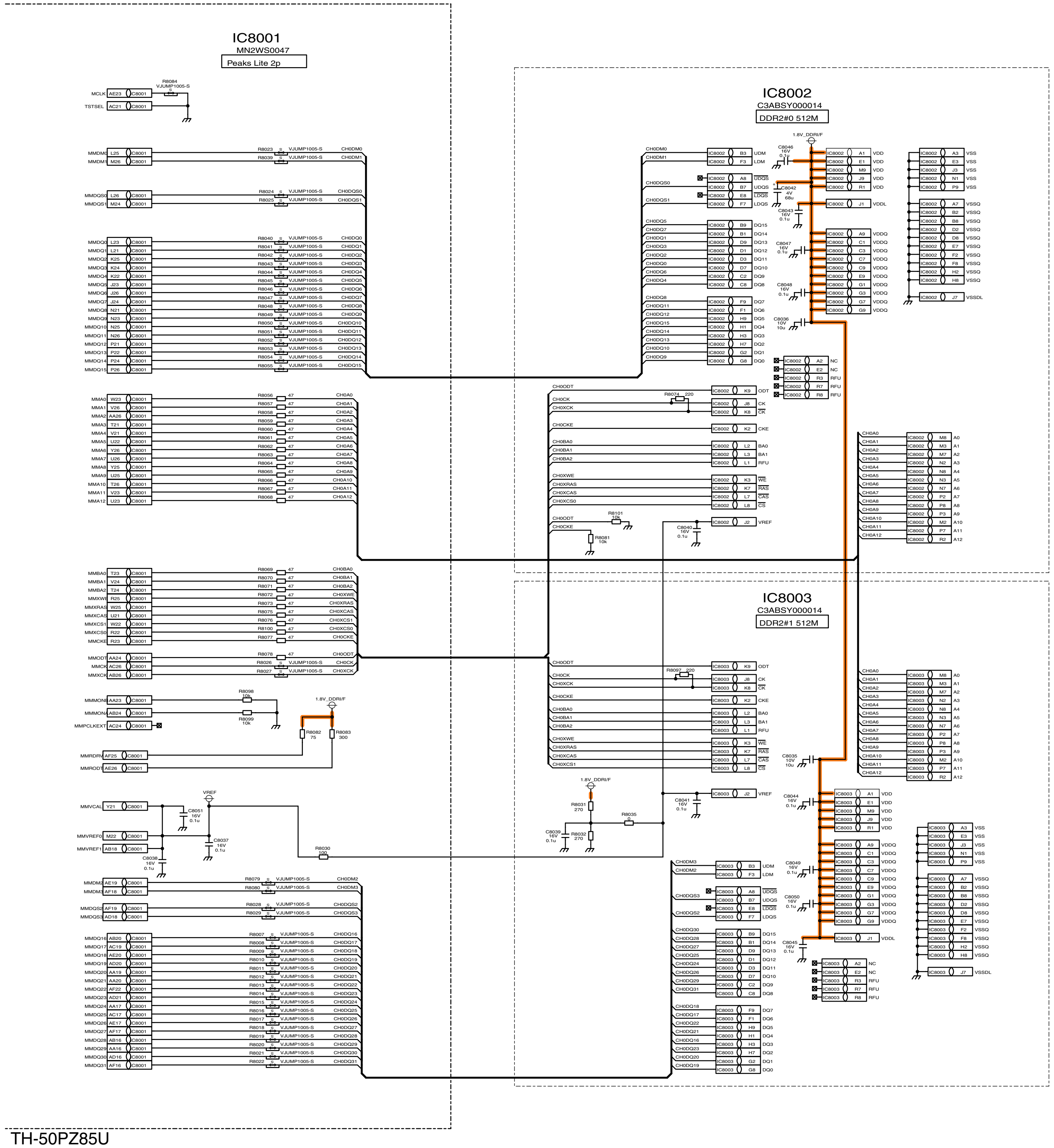
11.7. A-Board (1/12) Schematic Diagram


A-BOARD TNPH0721ACS (1/12)
Peaks-Lite2p,DDR
IC8001
MN2WS0047
Peaks Lite 2p
LOSD OUT (for HQ1)
FOR HQ1L VIDEO
FOR ADV7495
B PORT (Sub Video Input or Address)
CPU BUS I/F
POD,CI I/F
LVDS I/F
IIC I/F
NAND I/F
Analog Video I/F
COMMON PORT .etc
AUDIO IF
SD CARD I/F
JTAG
SERIAL I/F
CH,IS IF
CLOCK GEN
IC8004
C0ZBZ0001030
CLOCK GEN
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

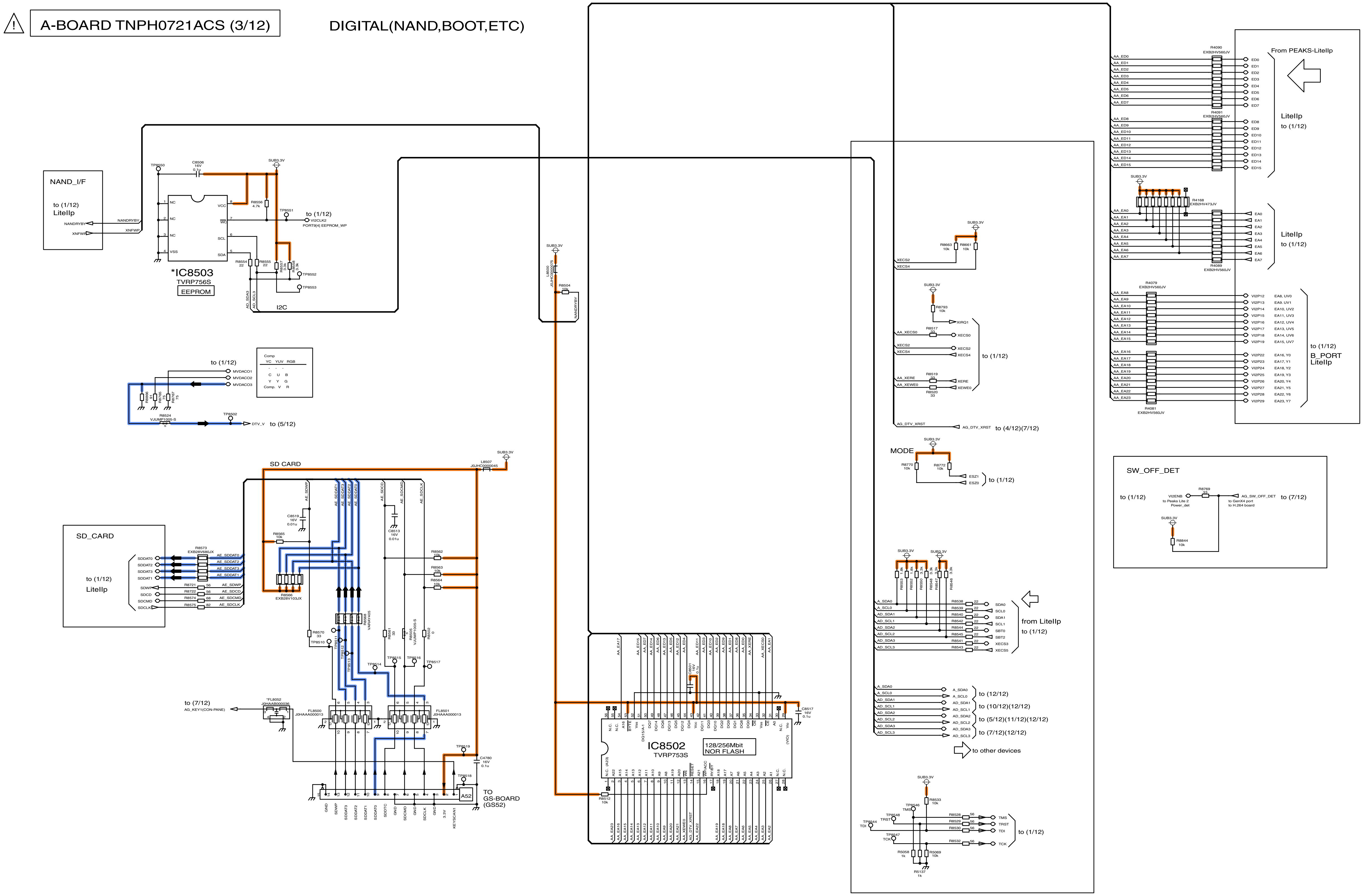
11.8. A-Board (2/12) Schematic Diagram

⚠ A-BOARD TNPH0721ACS (2/12)

Peaks-Lite2p,DDR


IC8001
MN2WS0047
Peaks Lite 2p
IC8002
C3ABSY000014
DDR2#0 512M
IC8003
C3ABSY000014
DDR2#1 512M
1.8V_DDR/F
VREF

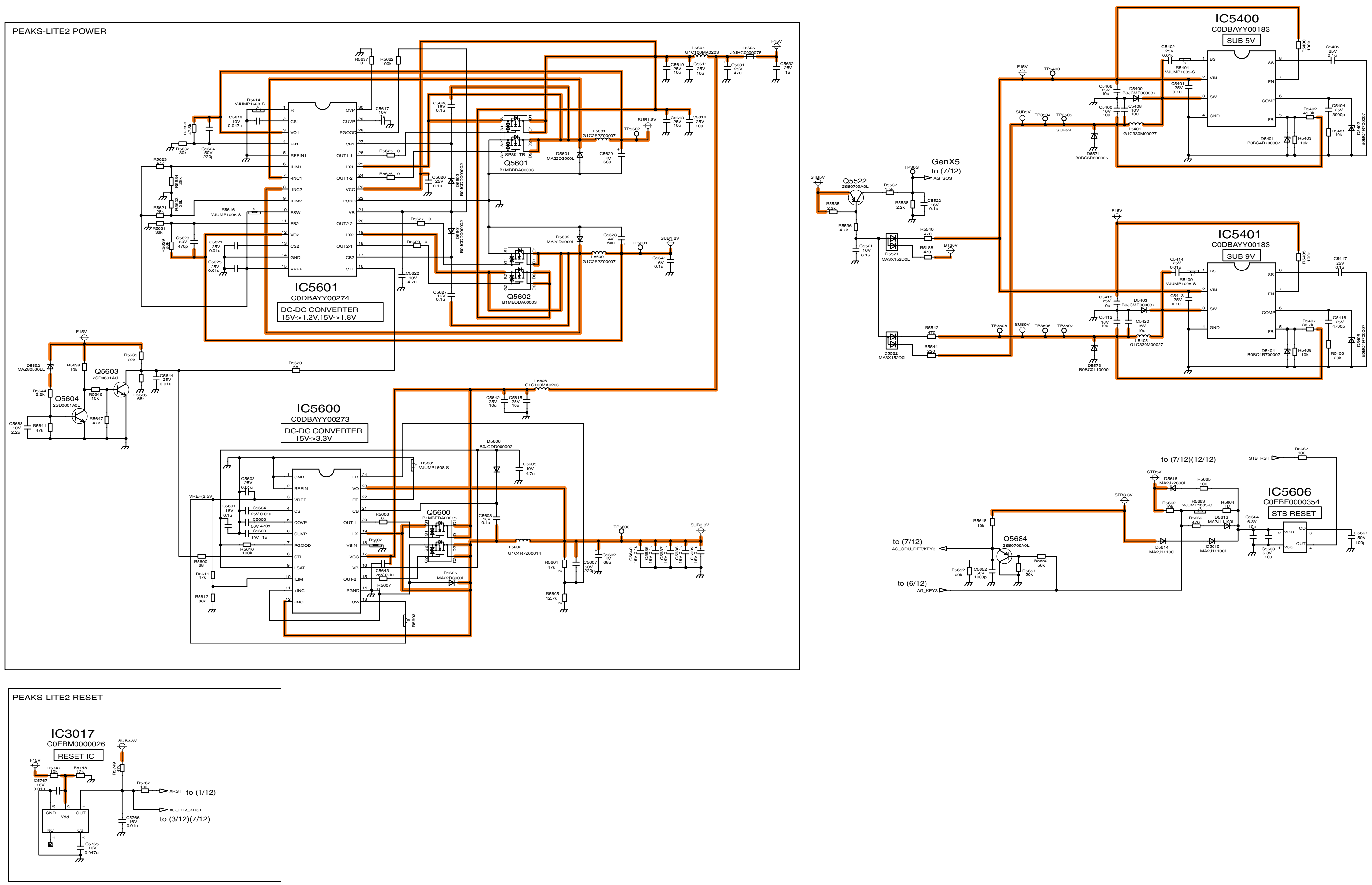
11.9. A-Board (3/12) Schematic Diagram


A-BOARD TNPH0721ACS (3/12)
DIGITAL(NAND,BOOT,ETC)
NAND_I/F
to (1/12)
LiteIIp
NANDRYBY
XNFWP
*IC8503
TVRP756S
EEPROM
I2C
to (1/12)
VI2CLK2
PORT6(4) EEPROM_WP
SUB3.3V
to (1/12)
MVDAC01
MVDAC02
MVDAC03
DTV_V
to (5/12)
SD CARD
SD_CARD
to (1/12)
LiteIIp
SDDAT0
SDDAT2
SDDAT3
SDDAT1
SDWP
SDCD
SDCMD
SDCLK
to (7/12)
AG_KEY1(CON-PANE)
FL8500
FL8501
TO
GS-BOARD
(GS52)
A52
IC8502
TVRP753S
128/256Mbit
NOR FLASH
MODE
to (1/12)
to (4/12)(7/12)
from LiteIIp
to (1/12)
to (12/12)
to (10/12)(12/12)
to (5/12)(11/12)(12/12)
to (7/12)(12/12)
to other devices
TMS
TRST
TDI
TCK
to (1/12)
From PEAKS-LiteIIp
LiteIIp
to (1/12)
LiteIIp
to (1/12)
to (1/12)
B_PORT
LiteIIp
SW_OFF_DET
to (1/12)
AG_SW_OFF_DET
to (7/12)

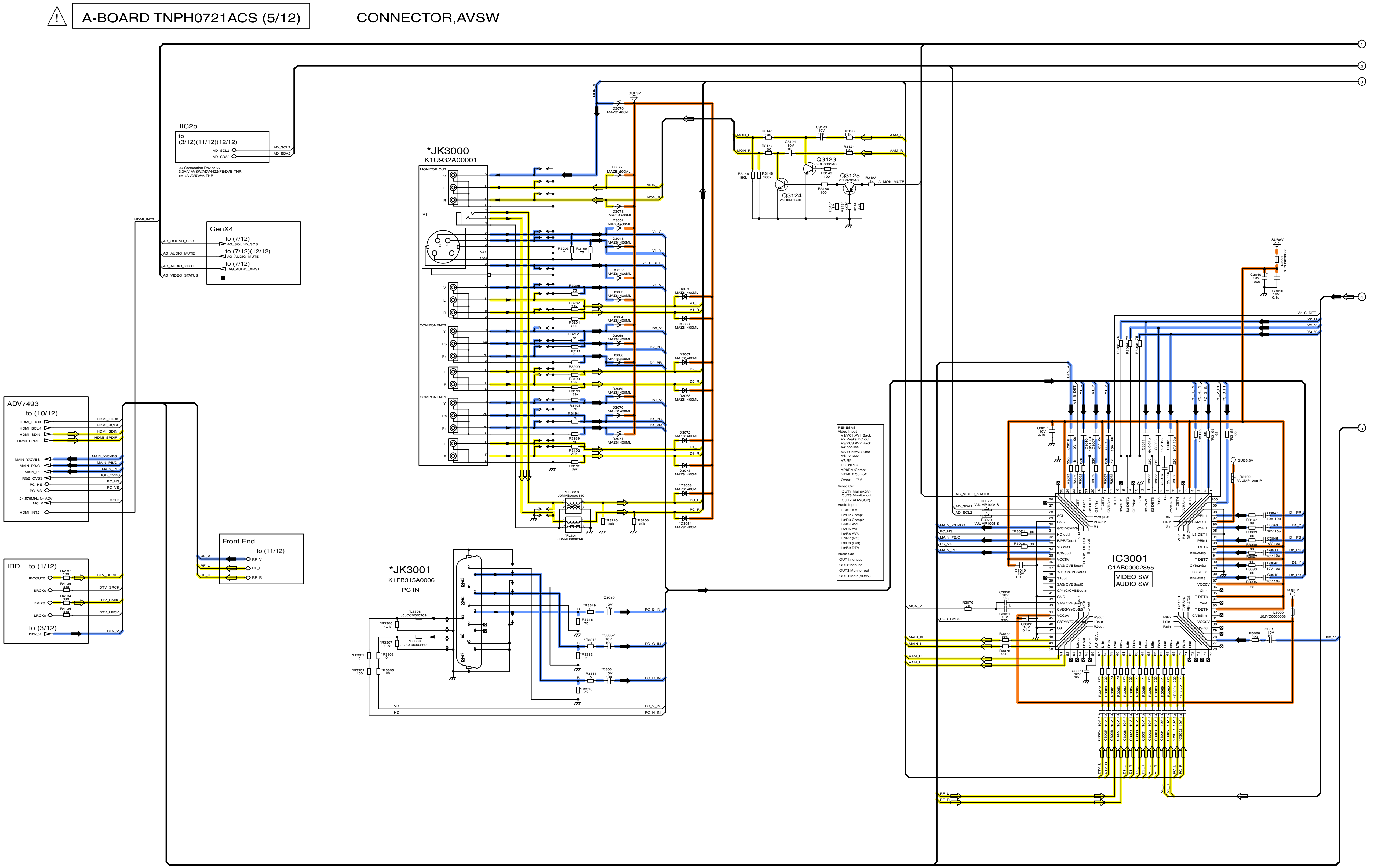
11.10. A-Board (4/12) Schematic Diagram

⚠ A-BOARD TNPH0721ACS (4/12)

POWER SUPPLY

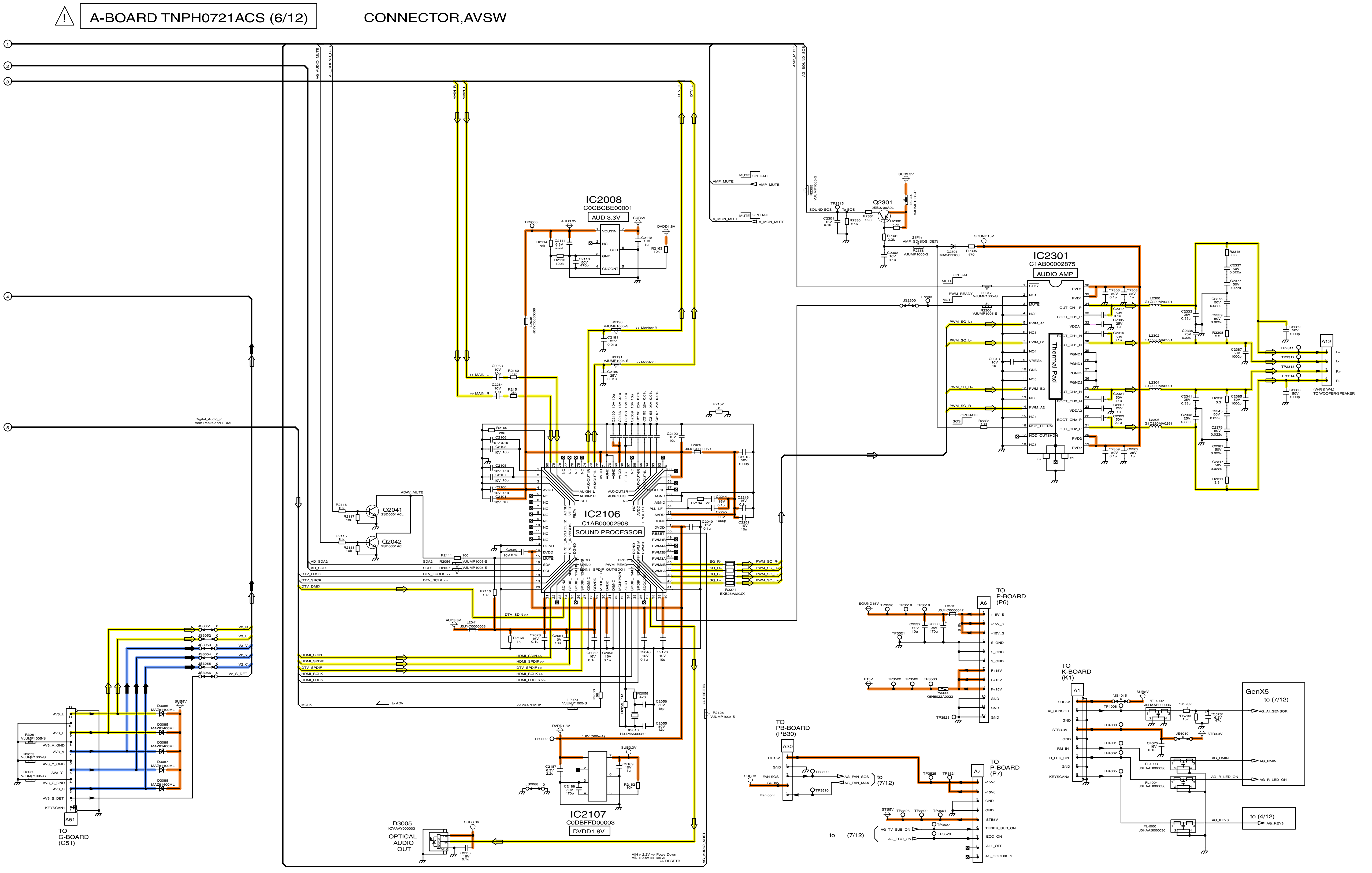

PEAKS-LITE2 POWER
IC5601
C0DBAYY00274
DC-DC CONVERTER
15V->1.2V,15V->1.8V
Q5601
B1MBDDA00003
Q5602
B1MBDDA00003
Q5603
2SD0601A0L
Q5604
2SD0601A0L
IC5600
C0DBAYY00273
DC-DC CONVERTER
15V->3.3V
Q5600
B1MBEDA00015
F15V
SUB1.8V
SUB1.2V
SUB3.3V
VREF(2.5V)
IC5400
C0DBAYY00183
SUB 5V
IC5401
C0DBAYY00183
SUB 9V
Q5522
2SB0709A0L
GenX5
to (7/12)
AG_SOS
STB5V
SUB5V
SUB9V
BT30V
IC5606
C0EBF0000354
STB RESET
to (7/12)(12/12)
STB_RST
Q5684
2SB0709A0L
to (7/12)
AG_ODU_DET/KEY3
to (6/12)
AG_KEY3
PEAKS-LITE2 RESET
IC3017
C0EBM0000026
RESET IC
SUB3.3V
XRST
to (1/12)
AG_DTV_XRST
to (3/12)(7/12)

11.11. A-Board (5/12) Schematic Diagram


A-BOARD TNPH0721ACS (5/12)
CONNECTOR,AVSW
IIC2p
to (3/12)(11/12)(12/12)
AD_SCL2
AD_SDA2
<< Connection Device >>
3.3V:V-AVSW/ADV/4422/FE/DVB-TNR
5V :A-AVSW/A-TNR
GenX4
to (7/12)
AG_SOUND_SOS
to (7/12)(12/12)
AG_AUDIO_MUTE
to (7/12)
AG_AUDIO_XRST
AG_VIDEO_STATUS
HDMI_INT2
*JK3000
K1U932A00001
MONITOR OUT
COMPONENT2
COMPONENT1
*JK3001
K1FB315A0006
PC IN
ADV7493
to (10/12)
HDMI_LRCK
HDMI_BCLK
HDMI_SDIN
HDMI_SPDIF
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
RGB_CVBS
PC_HS
PC_VS
24.576MHz for ADV
MCLK
HDMI_INT2
IRD
to (1/12)
IECOUT0
SRCK0
DMIX0
LRCK0
to (3/12)
DTV_V
DTV_SPDIF
DTV_SRCK
DTV_DMIX
DTV_LRCK
Front End
to (11/12)
RF_V
RF_L
RF_R
Q3123
2SD0601A0L
Q3124
2SD0601A0L
Q3125
2SB0709A0L
A_MON_MUTE
MON_L
MON_R
AAM_L
AAM_R
SUB9V
SUB3.3V
IC3001
C1AB00002855
VIDEO SW
AUDIO SW
L3000
J0JYC0000068
VD
HD
PC_V_IN
PC_H_IN
PC_B_IN
PC_G_IN
PC_R_IN
V2_S_DET
V2_C
V2_Y
V2_V
D1_PR
D1_Y
D1_PB
D2_Y
D2_PB
D2_PR
MON_V
RGB_CVBS
MAIN_R
MAIN_L
AAM_R
AAM_L
RF_L
RF_R
RF_V

RENESAS
Video Input
V1/YC1:AV1 Back
V2:Peaks DC out
V3/YC3:AV2 Back
V4:nonuse
V5/YC4:AV3 Side
V6:nonuse
V7:RF
RGB:(PC)
YPbPr1:Comp1
YPbPr2:Comp2
Other: 空き
Video Out
OUT1:Main(ADV)
OUT3:Monitor out
OUT7:ADV(SOY)
Audio Input
L1/R1 RF
L2/R2 Comp1
L3/R3 Comp2
L4/R4 AV1
L5/R5 Av2
L6/R6 AV3
L7/R7 (PC)
L8/R8 (DVI)
L9/R9 DTV
Audio Out
OUT1:nonuse
OUT2:nonuse
OUT3:Monitor out
OUT4:Main(ADAV)

11.12. A-Board (6/12) Schematic Diagram

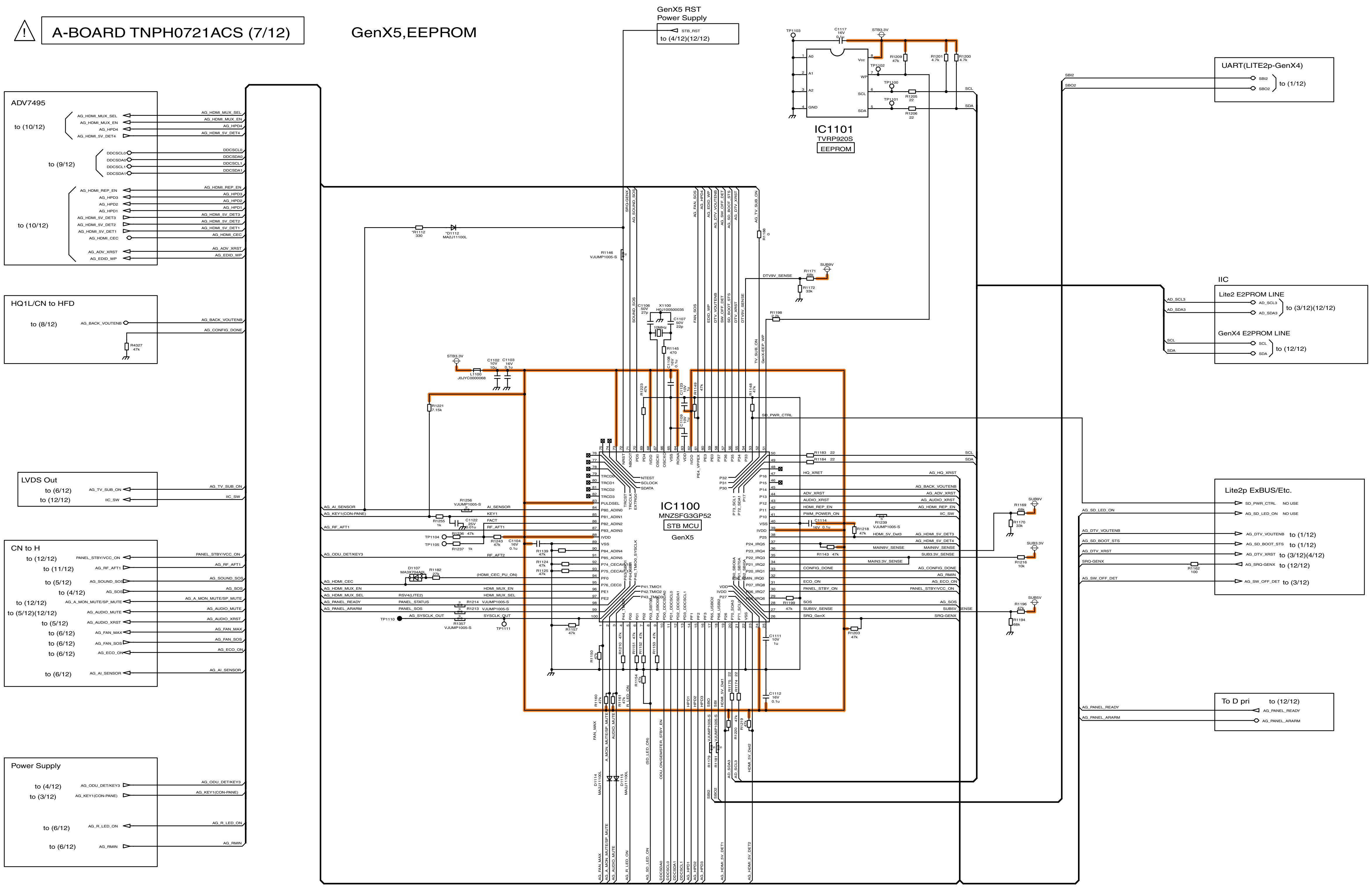

A-BOARD TNPH0721ACS (6/12)
CONNECTOR,AVSW
IC2008
C0CBCBE00001
AUD 3.3V
IC2106
C1AB00002908
SOUND PROCESSOR
IC2301
C1AB00002875
AUDIO AMP
Thermal Pad
IC2107
C0DBFFD00003
DVDD1.8V
Q2041
Q2042
Q2301
D3005
K7AAAY000003
OPTICAL AUDIO OUT
A51
TO G-BOARD (G51)
A6
TO P-BOARD (P6)
A30
TO PB-BOARD (PB30)
A7
TO P-BOARD (P7)
A1
TO K-BOARD (K1)
A12
(W-R & W-L) TO WOOFER/SPEAKER
GenX5
to (7/12)
to (4/12)
Digital_Audio_in from Peaks and HDMI
1
2
3
4
5

TH-50PZ85U
A-Board (6/12) Schematic Diagram

TH-50PZ85U
A-Board (6/12) Schematic Diagram

46	47	48	49	50	51	52	53	54

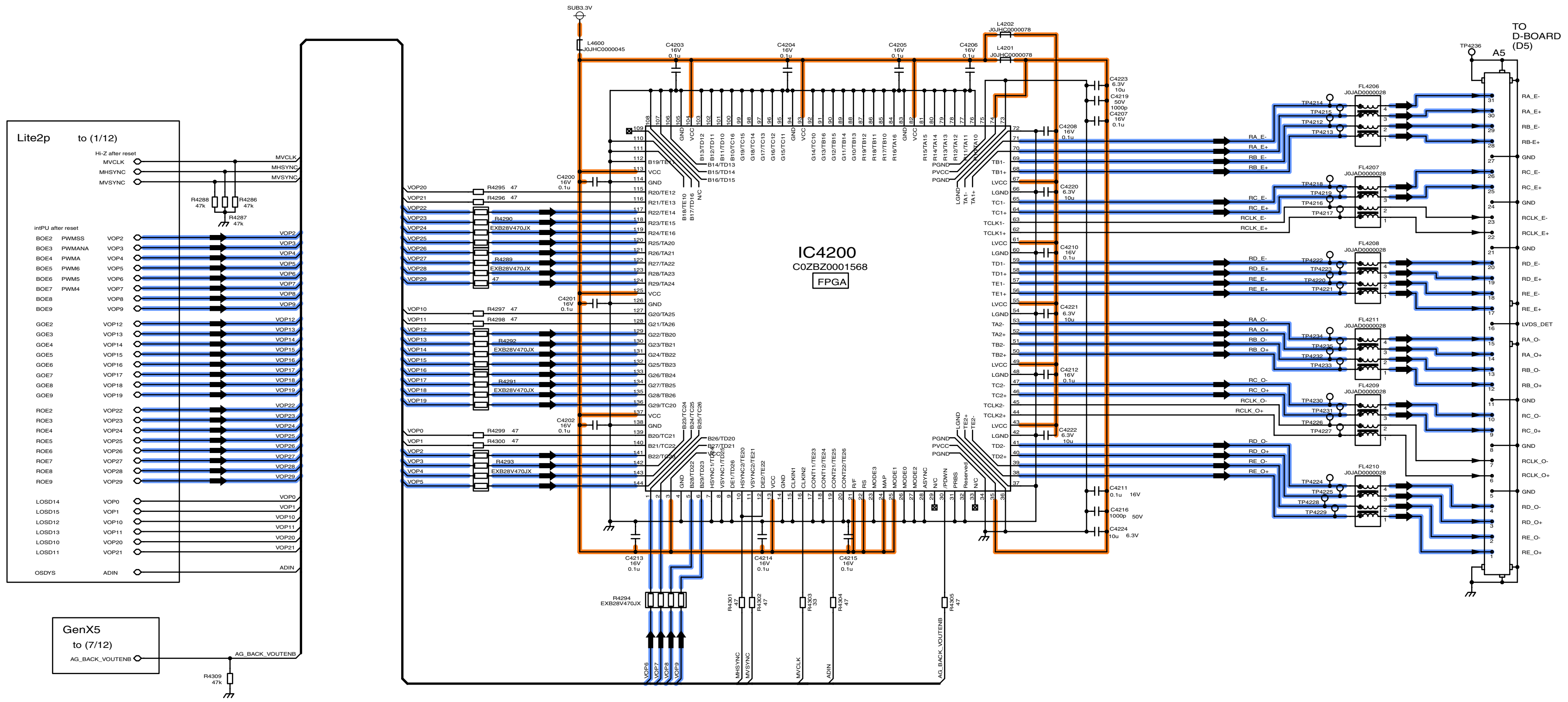
11.13. A-Board (7/12) Schematic Diagram


A-BOARD TNPH0721ACS (7/12)
GenX5,EEPROM
GenX5 RST
Power Supply
to (4/12)(12/12)
ADV7495
to (10/12)
to (9/12)
to (10/12)
HQ1L/CN to HFD
to (8/12)
LVDS Out
to (6/12)
to (12/12)
CN to H
to (12/12)
to (11/12)
to (5/12)
to (4/12)
to (12/12)
to (5/12)(12/12)
to (5/12)
to (6/12)
to (6/12)
to (6/12)
to (6/12)
Power Supply
to (4/12)
to (3/12)
to (6/12)
to (6/12)
IC1101
TVRP920S
EEPROM
IC1100
MNZSFG3GP52
STB MCU
GenX5
UART(LITE2p-GenX4)
to (1/12)
IIC
Lite2 E2PROM LINE
to (3/12)(12/12)
GenX4 E2PROM LINE
to (12/12)
Lite2p ExBUS/Etc.
to (1/12)
to (1/12)
to (3/12)(4/12)
to (12/12)
to (3/12)
To D pri
to (12/12)

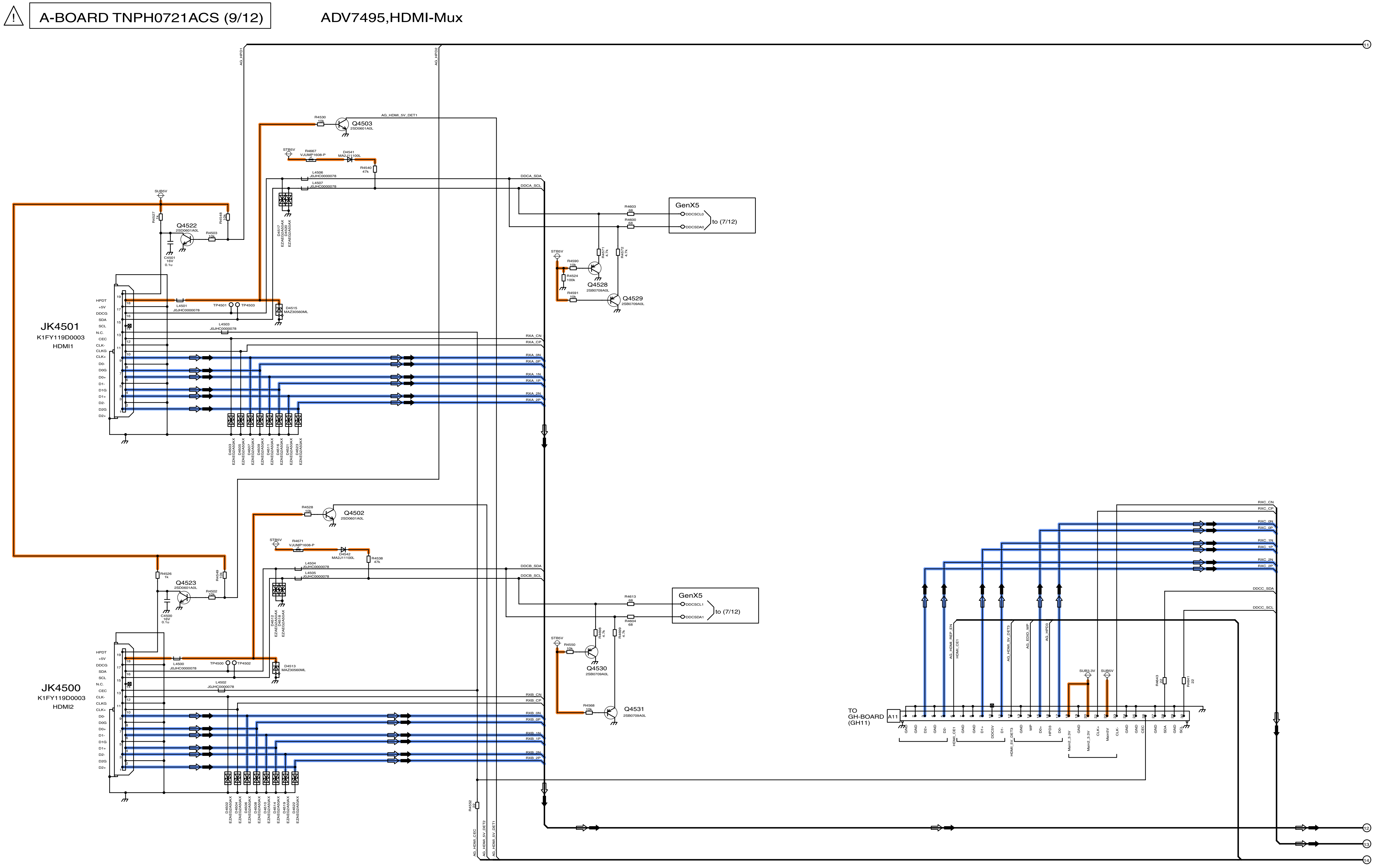
11.14. A-Board (8/12) Schematic Diagram

⚠ A-BOARD TNPH0721ACS (8/12)

LVDS-Tx


SUB3.3V
Lite2p
to (1/12)
GenX5
to (7/12)
AG_BACK_VOUTENB
IC4200
C0ZBZ0001568
FPGA
TO
D-BOARD
(D5)
A5
MVCLK
MHSYNC
MVSYNC
ADIN

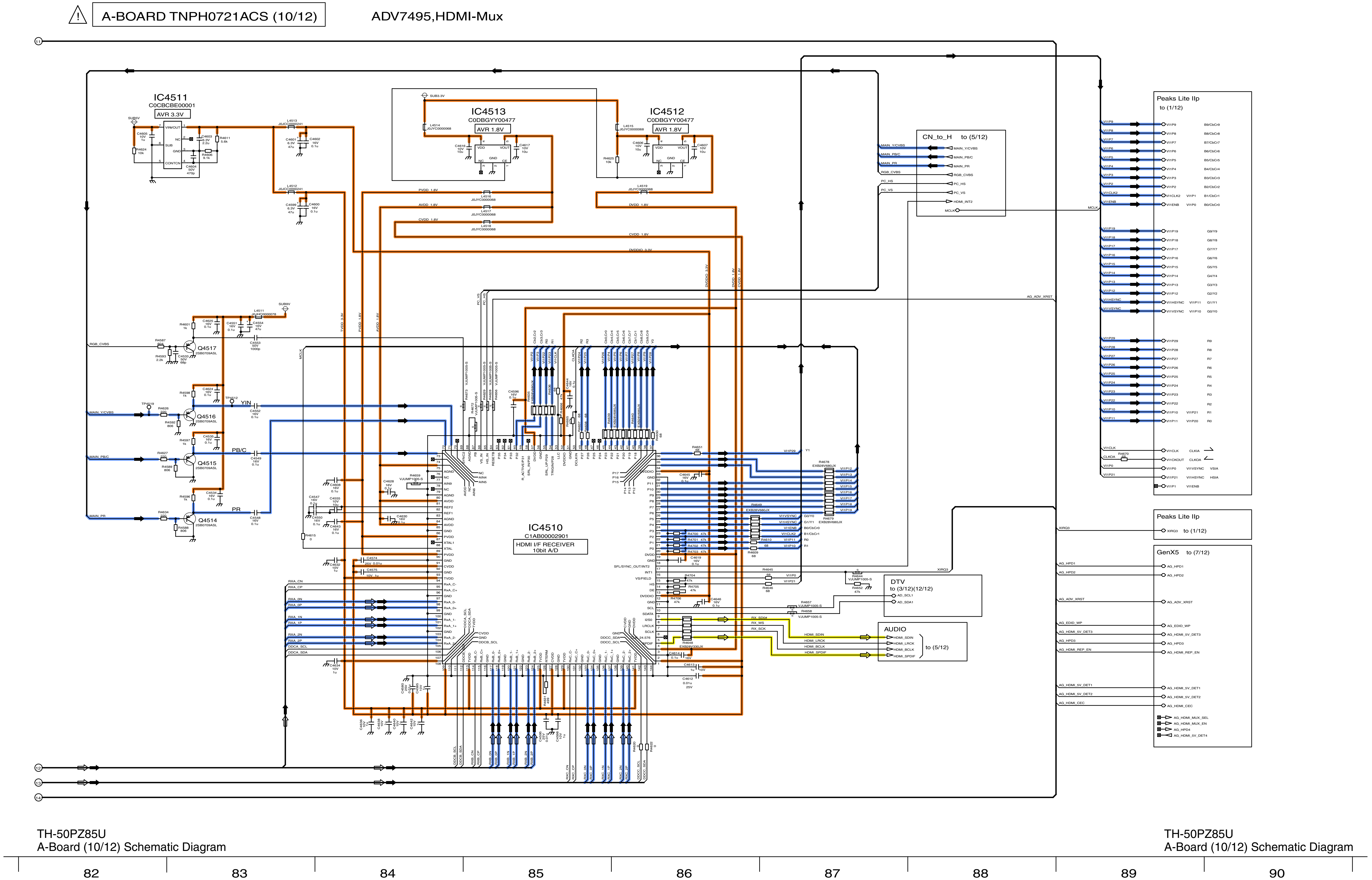
11.15. A-Board (9/12) Schematic Diagram


A-BOARD TNPH0721ACS (9/12)
ADV7495,HDMI-Mux
AG_HPD1
AG_HPD2
AG_HDMI_5V_DET1
Q4503
2SD0601A0L
R4530
STB5V
R4667
VJUMP1608-P
D4541
MA2J11100L
R4540
47k
L4506
J0JHC0000078
L4507
J0JHC0000078
DDCA_SDA
DDCA_SCL
SUB5V
Q4522
2SD0601A0L
R4503
C4501
16V
0.1u
GenX5
DDCSCL2
DDCSDA2
to (7/12)
R4603
R4600
Q4528
2SB0709A0L
Q4529
2SB0709A0L
JK4501
K1FY119D0003
HDMI1
HPDT
+5V
DDCG
SDA
SCL
N.C.
CEC
CLK-
CLKG
CLK+
D0-
D0G
D0+
D1-
D1G
D1+
D2-
D2G
D2+
L4501
J0JHC0000078
TP4501
TP4503
D4515
MAZ30560ML
L4503
J0JHC0000078
RXA_CN
RXA_CP
RXA_0N
RXA_0P
RXA_1N
RXA_1P
RXA_2N
RXA_2P
Q4502
2SD0601A0L
R4528
10k
R4671
VJUMP1608-P
D4542
MA2J11100L
R4538
47k
L4504
J0JHC0000078
L4505
J0JHC0000078
DDCB_SDA
DDCB_SCL
Q4523
2SD0601A0L
R4526
1k
R4502
C4500
16V
0.1u
GenX5
DDCSCL1
DDCSDA1
to (7/12)
R4613
R4604
Q4530
2SB0709A0L
Q4531
2SB0709A0L
R4550
R4568
JK4500
K1FY119D0003
HDMI2
L4500
J0JHC0000078
TP4500
TP4502
D4513
MAZ30560ML
L4502
J0JHC0000078
RXB_CN
RXB_CP
RXB_0N
RXB_0P
RXB_1N
RXB_1P
RXB_2N
RXB_2P
RXC_CN
RXC_CP
RXC_0N
RXC_0P
RXC_1N
RXC_1P
RXC_2N
RXC_2P
DDCC_SDA
DDCC_SCL
SUB3.3V
SUB5V
TO
GH-BOARD
(GH11)
A11
AG_HDMI_CEC
AG_HDMI_5V_DET2
AG_HDMI_5V_DET1
11
12
13
14

TH-50PZ85U
A-Board (9/12) Schematic Diagram

TH-50PZ85U
A-Board (9/12) Schematic Diagram

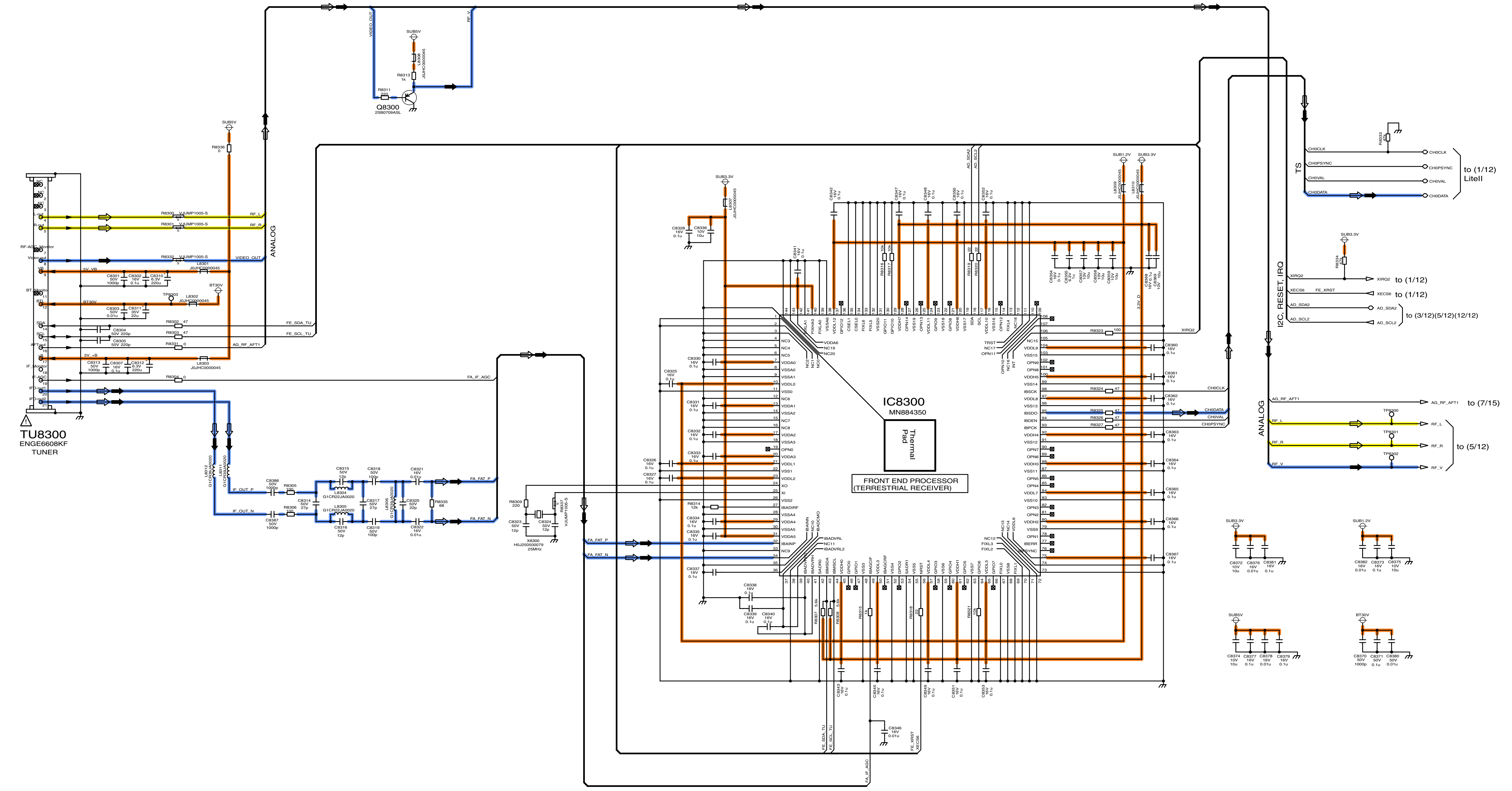
11.16. A-Board (10/12) Schematic Diagram


A-BOARD TNPH0721ACS (10/12)
ADV7495,HDMI-Mux
IC4511
C0CBCBE00001
AVR 3.3V
IC4513
C0DBGYY00477
AVR 1.8V
IC4512
C0DBGYY00477
AVR 1.8V
IC4510
C1AB00002901
HDMI I/F RECEIVER
10bit A/D
Q4517
Q4516
Q4515
Q4514
YIN
PB/C
PR
RGB_CVBS
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
CN_to_H to (5/12)
Peaks Lite IIp to (1/12)
Peaks Lite IIp
XIRQ3 to (1/12)
GenX5 to (7/12)
DTV to (3/12)(12/12)
AUDIO to (5/12)
82
83
84
85
86
87
88
89
90

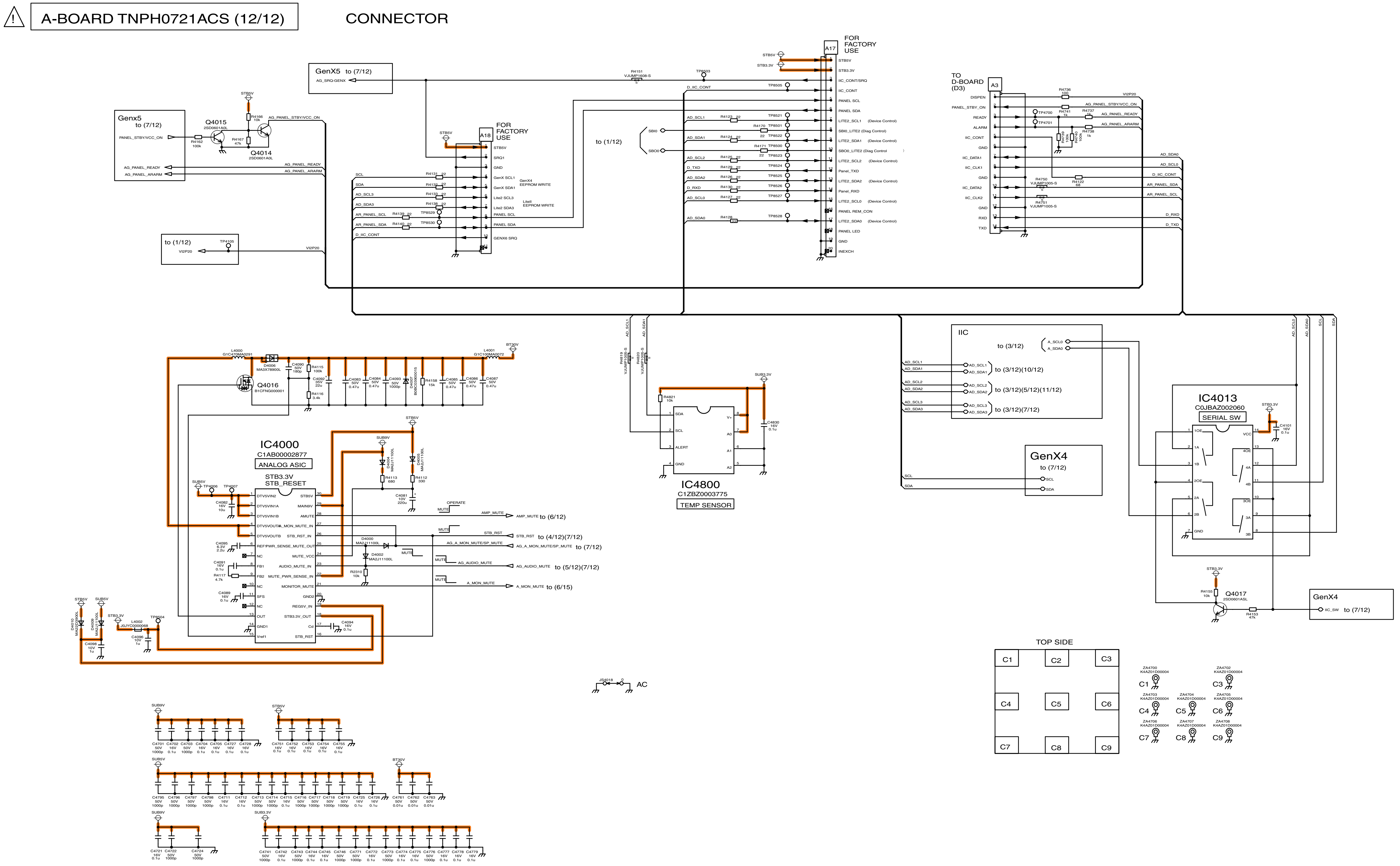
11.17. A-Board (11/12) Schematic Diagram

A-BOARD TNPH0721ACS (11/12)

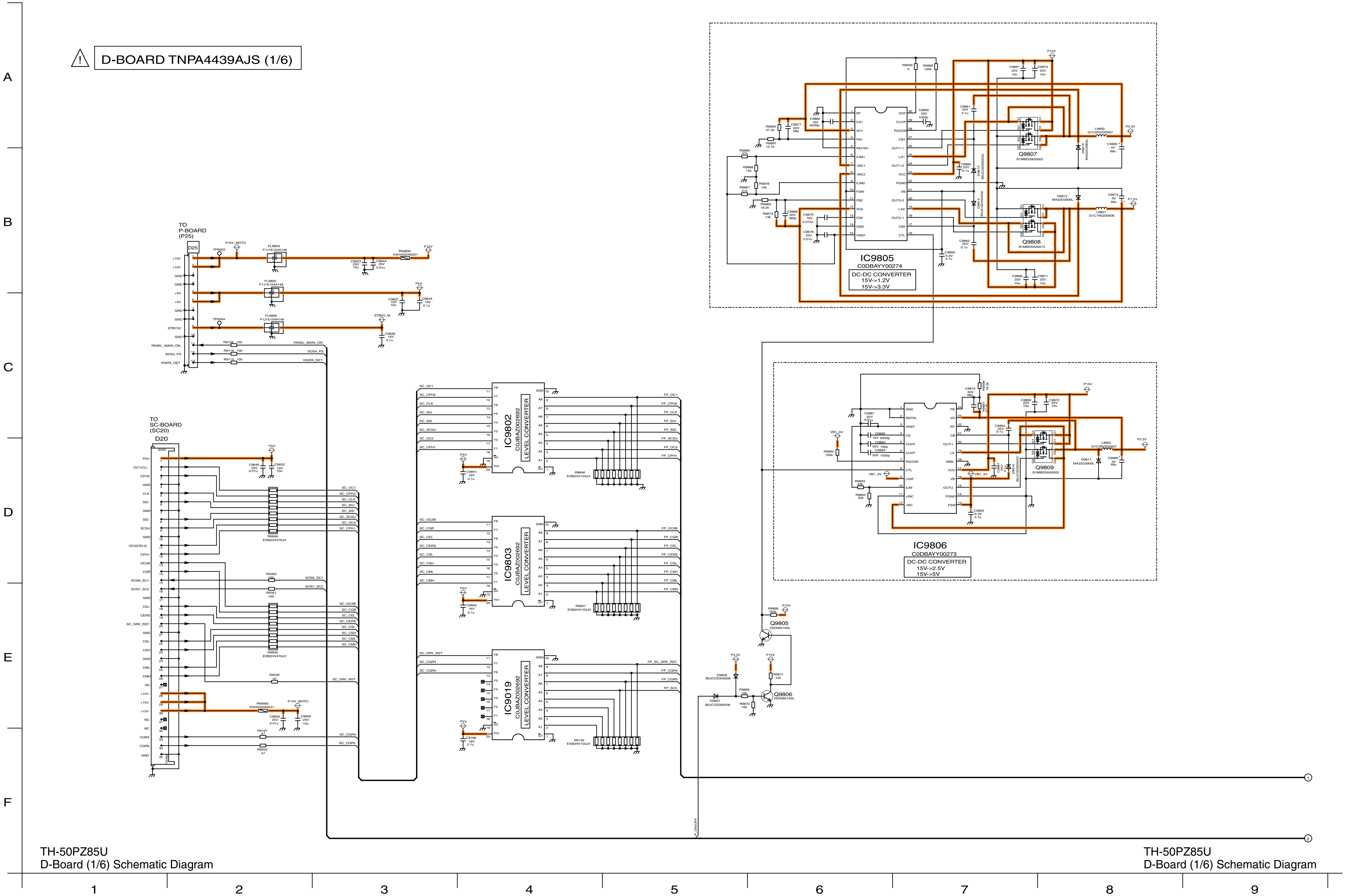
FrontEnd


VIDEO_OUT
RF_V
SUB5V
R8313 1k
R8311 220
Q8300 2SB0709ASL
TU8300
ENGE6608KF
TUNER
ANALOG
RF_L
RF_R
VIDEO_OUT
FE_SDA_TU
FE_SCL_TU
AG_RF_AFT1
FA_IF_AGC
IF_OUT_P
IF_OUT_N
FA_FAT_P
FA_FAT_N
X8300 H0J250500079 25MHz
SUB3.3V
SUB1.2V
BT30V
IC8300
MN884350
Thermal Pad
FRONT END PROCESSOR
(TERRESTRIAL RECEIVER)
TS
CH0CLK
CH0PSYNC
CH0VAL
CH0DATA
to (1/12)
LiteII
I2C, RESET, IRQ
XIRQ2
to (1/12)
XECS6
to (1/12)
AD_SDA2
AD_SCL2
to (3/12)(5/12)(12/12)
ANALOG
AG_RF_AFT1
to (7/15)
TP8300
TP8301
TP8302
RF_L
RF_R
RF_V
to (5/12)

11.18. A-Board (12/12) Schematic Diagram


A-BOARD TNPH0721ACS (12/12)
CONNECTOR
GenX5 to (7/12)
Genx5 to (7/12)
Q4015 2SD0601ASL
Q4014 2SD0601ASL
AG_PANEL_STBY/VCC_ON
AG_PANEL_READY
AG_PANEL_ARARM
to (1/12)
V12P20
FOR FACTORY USE
A18
GenX4 EEPROM WRITE
Lite II EEPROM WRITE
GENX6 SRQ
A17
FOR FACTORY USE
TO D-BOARD (D3)
A3
IIC
to (3/12)
to (3/12)(10/12)
to (3/12)(5/12)(11/12)
to (3/12)(7/12)
IC4013
C0JBAZ002060
SERIAL SW
IC4800
C1ZBZ0003775
TEMP SENSOR
GenX4 to (7/12)
Q4017 2SD0601ASL
Q4016 B1CFNG000001
IC4000
C1AB00002877
ANALOG ASIC
STB3.3V STB_RESET
to (6/12)
to (4/12)(7/12)
to (7/12)
to (5/12)(7/12)
to (6/15)
AC
TOP SIDE
C1 C2 C3
C4 C5 C6
C7 C8 C9

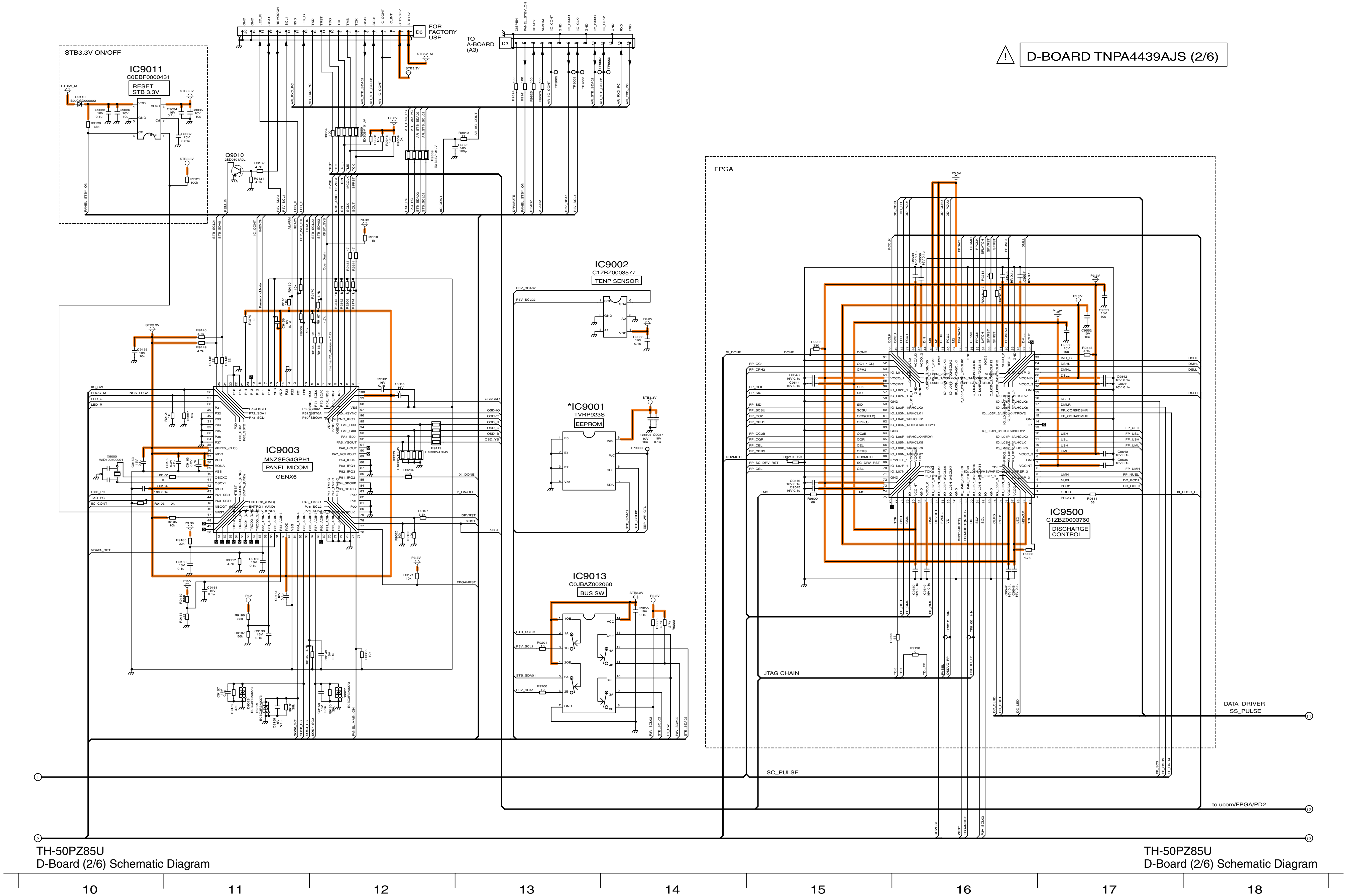
11.19. D-Board (1/6) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
D-BOARD TNPA4439AJS (1/6)
TO P-BOARD (P25)
D25
TO SC-BOARD (SC20)
D20
P15V_MOTO
P15V
P5V
STBY5V
STB5V_M
PANEL_MAIN_ON
SOS4_PS
VDATA_DET
FL9805
FL9806
PA9800
IC9802
C0JBAZ002692
LEVEL CONVERTER
IC9803
C0JBAZ002692
LEVEL CONVERTER
IC9019
C0JBAZ002692
LEVEL CONVERTER
R9846
EXB2HV103JV
R9847
EXB2HV103JV
R9120
EXB2HV103JV
R9848
EXB2HV470JV
R9849
EXB2HV470JV
PA9900
IC9805
C0DBAYY00274
DC-DC CONVERTER
15V->1.2V
15V->3.3V
Q9807
B1MBDDA00003
Q9808
B1MBDDA00015
P3.3V
P1.2V
IC9806
C0DBAYY00273
DC-DC CONVERTER
15V->2.5V
15V->5V
Q9809
B1MBDDA00003
P2.5V
Q9805
2SD0601A0L
Q9806
2SD0601A0L
D9806
B0JCCE000008
D9807
B0JCCE000008
1
2

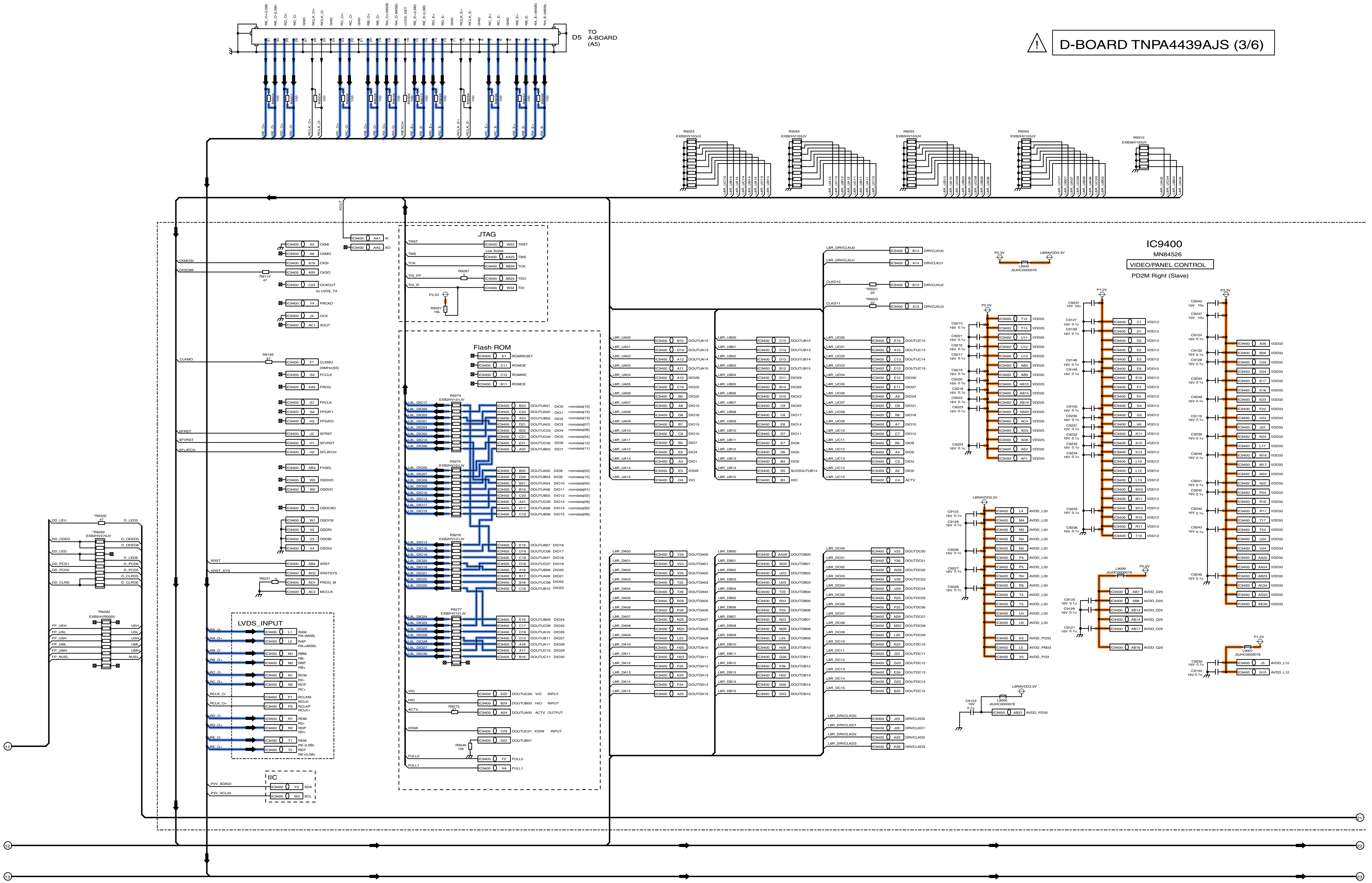
TH-50PZ85U
D-Board (1/6) Schematic Diagram

TH-50PZ85U
D-Board (1/6) Schematic Diagram

11.20. D-Board (2/6) Schematic Diagram


D-BOARD TNPA4439AJS (2/6)
STB3.3V ON/OFF
IC9011
C0EBF0000431
RESET
STB 3.3V
Q9010
D6
FOR FACTORY USE
TO A-BOARD (A3)
D3
IC9002
C1ZBZ0003577
TENP SENSOR
*IC9001
TVRP923S
EEPROM
IC9003
MNZSFG4GPH1
PANEL MICOM
GENX6
IC9013
C0JBAZ002060
BUS SW
FPGA
IC9500
C1ZBZ0003760
DISCHARGE CONTROL
JTAG CHAIN
SC_PULSE
DATA_DRIVER
SS_PULSE
to ucom/FPGA/PD2
TH-50PZ85U
D-Board (2/6) Schematic Diagram
TH-50PZ85U
D-Board (2/6) Schematic Diagram
10
11
12
13
14
15
16
17
18

11.21. D-Board (3/6) Schematic Diagram


D5
TO
A-BOARD
(A5)
D-BOARD TNPA4439AJS (3/6)
IC9400
MN84526
VIDEO/PANEL CONTROL
PD2M Right (Slave)
JTAG
Flash ROM
LVDS_INPUT
IIC

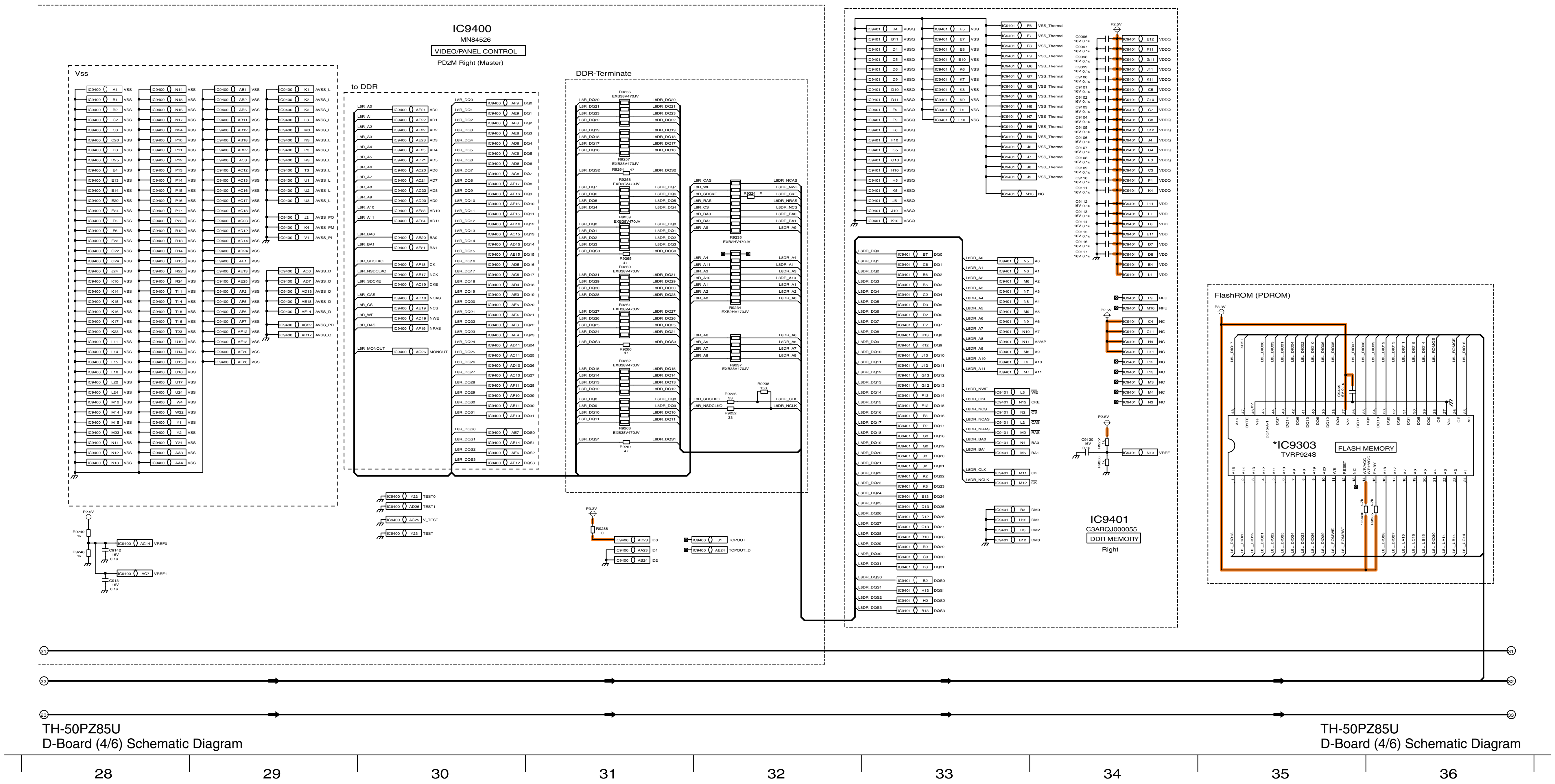
TH-50PZ85U
D-Board (3/6) Schematic Diagram

TH-50PZ85U
D-Board (3/6) Schematic Diagram

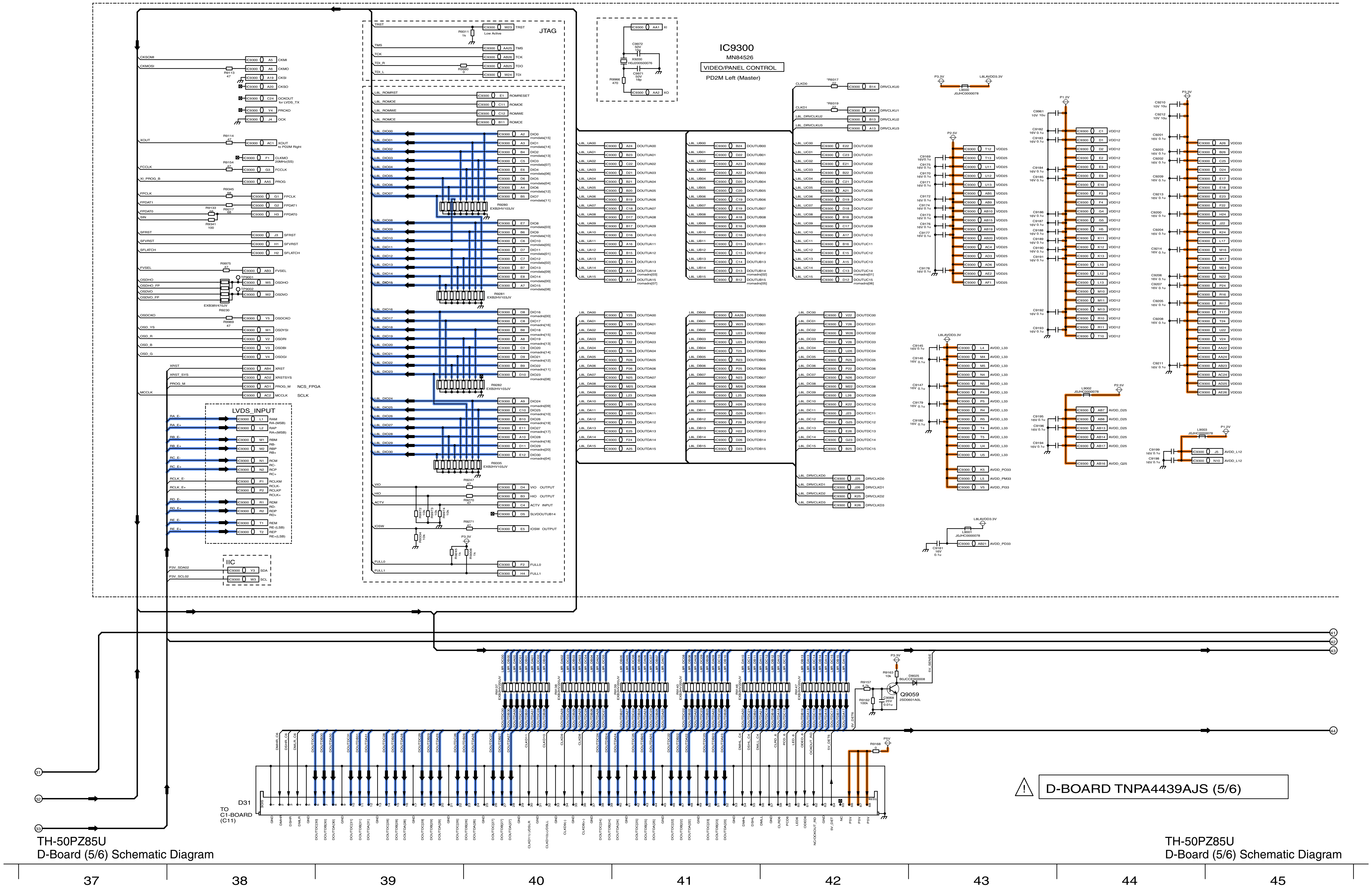
19 20 21 22 23 24 25 26 27

11.22. D-Board (4/6) Schematic Diagram

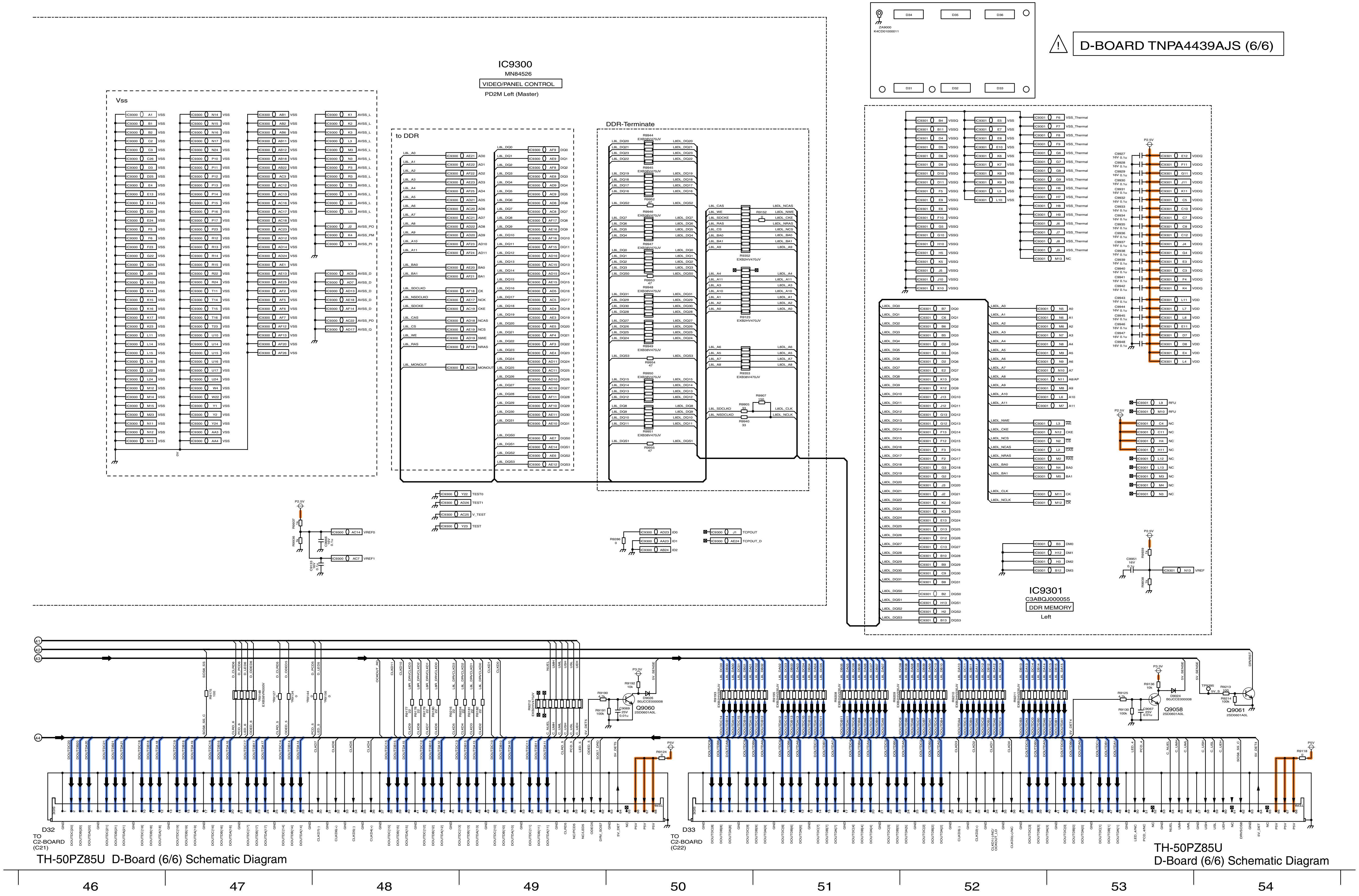
⚠ D-BOARD TNPA4439AJS (4/6)


IC9400
MN84526
VIDEO/PANEL CONTROL
PD2M Right (Master)
Vss
to DDR
DDR-Terminate
IC9401
C3ABQJ000055
DDR MEMORY
Right
FlashROM (PDROM)
*IC9303
TVRP924S
FLASH MEMORY
P2.5V
P3.3V
TH-50PZ85U
D-Board (4/6) Schematic Diagram
TH-50PZ85U
D-Board (4/6) Schematic Diagram
28
29
30
31
32
33
34
35
36

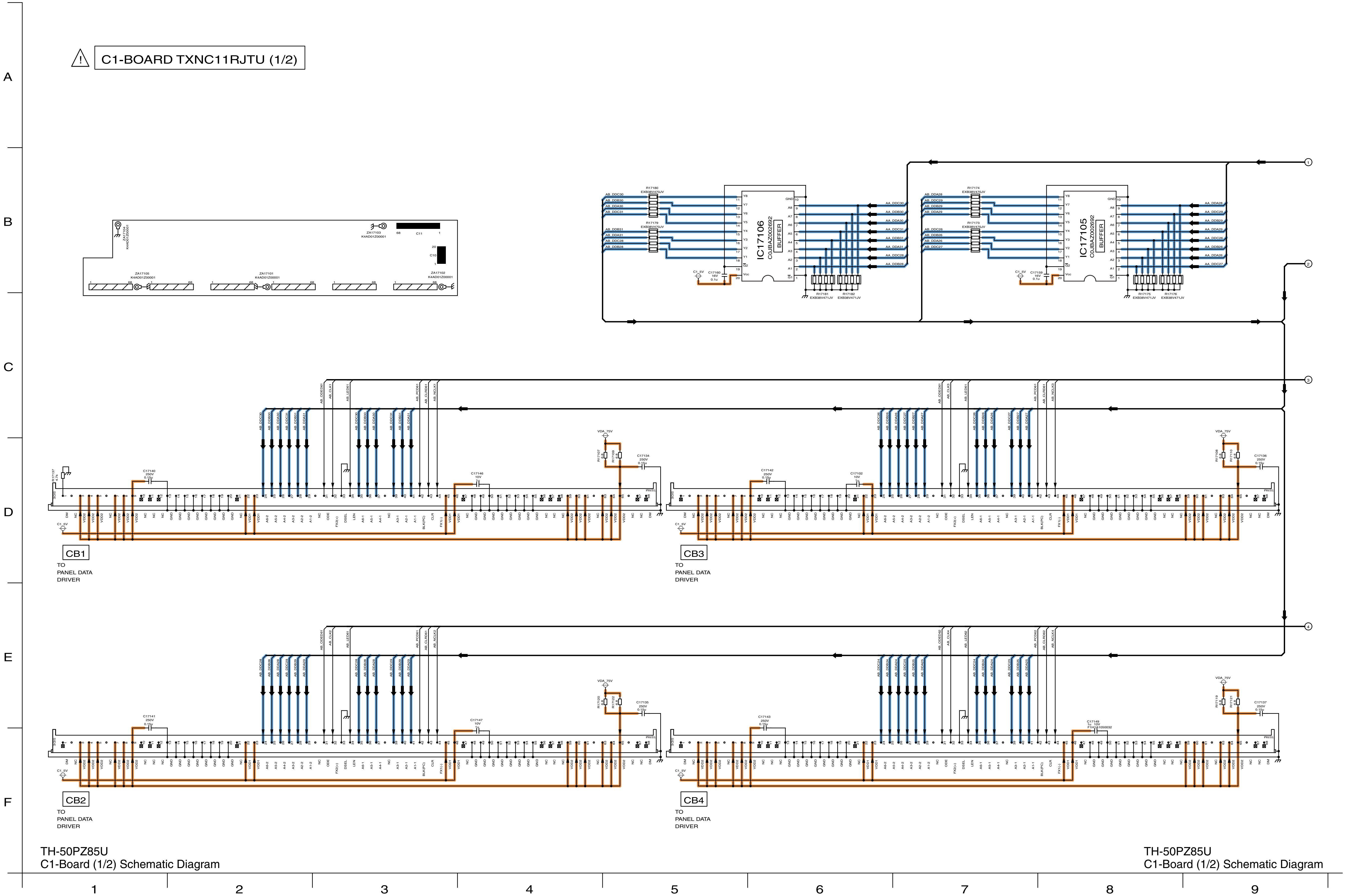
11.23. D-Board (5/6) Schematic Diagram


JTAG
IC9300
MN84526
VIDEO/PANEL CONTROL
PD2M Left (Master)
LVDS_INPUT
IIC
NCS_FPGA
SCLK
Q9059
D31
TO
C1-BOARD
(C11)
D-BOARD TNPA4439AJS (5/6)
37
38
39
40
41
42
43
44
45

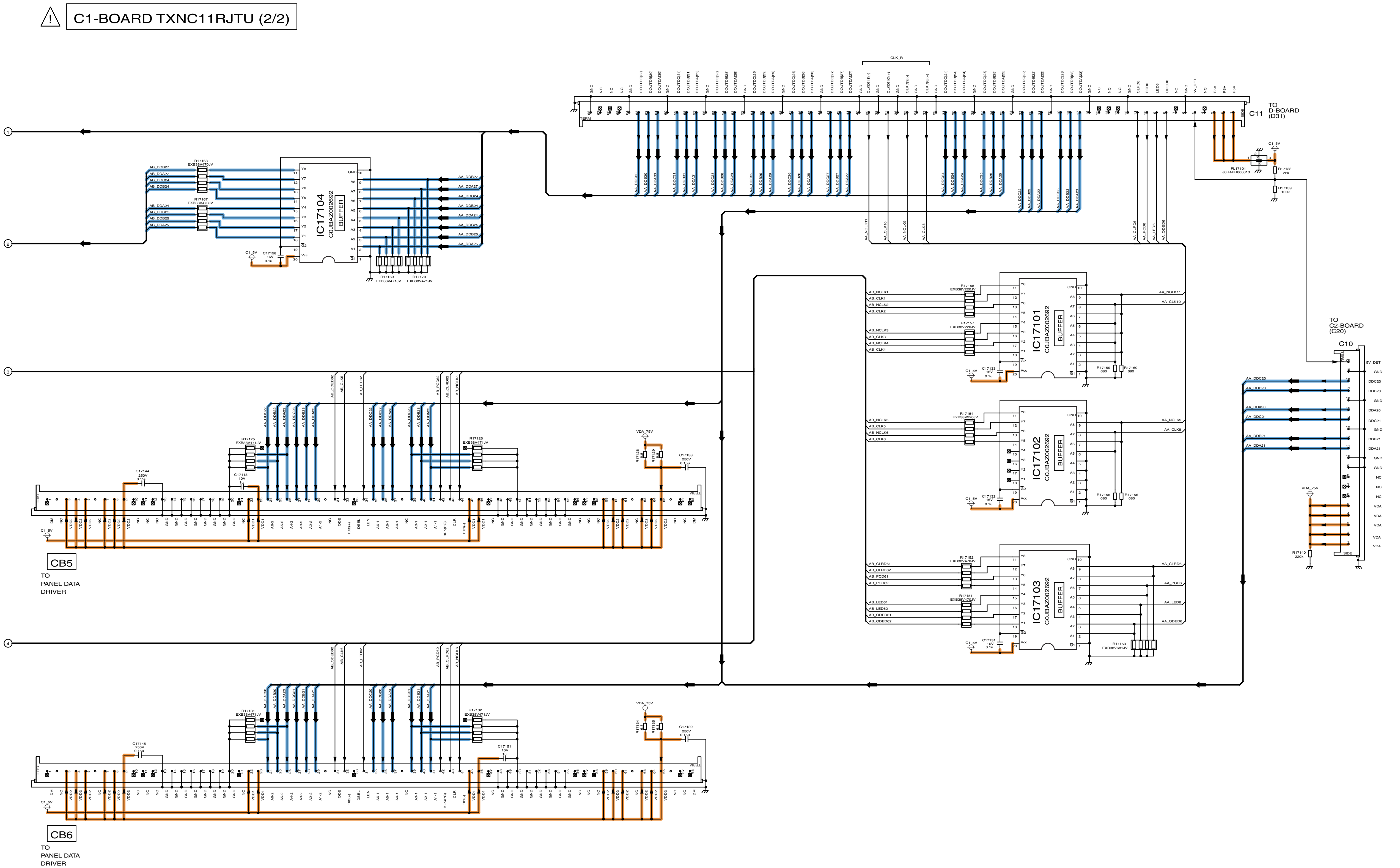
11.24. D-Board (6/6) Schematic Diagram


D-BOARD TNPA4439AJS (6/6)
IC9300
MN84526
VIDEO/PANEL CONTROL
PD2M Left (Master)
Vss
to DDR
DDR-Terminate
IC9301
C3ABQJ000055
DDR MEMORY
Left
Q9060
Q9058
Q9061
D32
TO
C2-BOARD
(C21)
D33
TO
C2-BOARD
(C22)
TH-50PZ85U D-Board (6/6) Schematic Diagram
TH-50PZ85U
D-Board (6/6) Schematic Diagram
46
47
48
49
50
51
52
53
54

11.25. C1-Board (1/2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
C1-BOARD TXNC11RJTU (1/2)
ZA17104
K4AD01Z00001
ZA17103
K4AD01Z00001
68
C11
1
20
C10
1
ZA17105
K4AD01Z00001
ZA17101
K4AD01Z00001
ZA17102
K4AD01Z00001
R17180
EXB38V470JV
R17179
EXB38V470JV
AB_DDC30
AB_DDB30
AB_DDA30
AB_DDC31
AB_DDB31
AB_DDA31
AB_DDC28
AB_DDB28
IC17106
C0JBAZ002692
BUFFER
C1_5V
C17160
16V
0.1u
R17181
EXB38V471JV
R17182
EXB38V471JV
AA_DDC30
AA_DDB30
AA_DDA30
AA_DDC31
AA_DDB31
AA_DDA31
AA_DDC28
AA_DDB28
R17174
EXB38V470JV
R17173
EXB38V470JV
AB_DDA28
AB_DDC29
AB_DDB29
AB_DDA29
AB_DDC26
AB_DDB26
AB_DDA26
AB_DDC27
IC17105
C0JBAZ002692
BUFFER
C17159
16V
0.1u
R17175
EXB38V471JV
R17176
EXB38V471JV
①
②
③
④
VDA_75V
CB1
TO
PANEL DATA
DRIVER
CB2
TO
PANEL DATA
DRIVER
CB3
TO
PANEL DATA
DRIVER
CB4
TO
PANEL DATA
DRIVER

11.26. C1-Board (2/2) Schematic Diagram

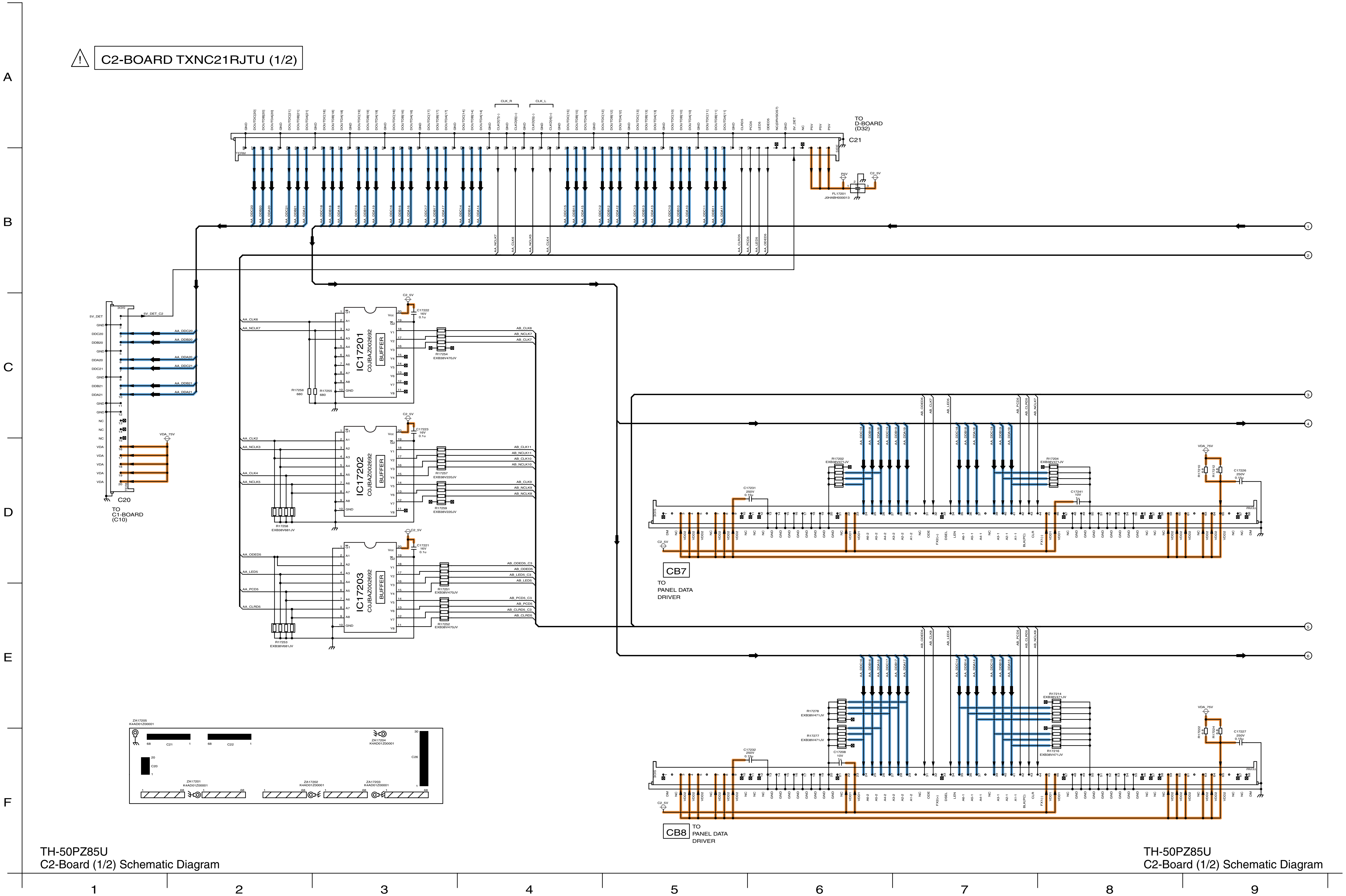

C1-BOARD TXNC11RJTU (2/2)
1
2
3
4
CLK_R
TO
D-BOARD
(D31)
C11
IC17104
C0JBAZ002692
BUFFER
IC17101
C0JBAZ002692
BUFFER
IC17102
C0JBAZ002692
BUFFER
IC17103
C0JBAZ002692
BUFFER
TO
C2-BOARD
(C20)
C10
CB5
TO
PANEL DATA
DRIVER
CB6
TO
PANEL DATA
DRIVER

TH-50PZ85U
C1-Board (2/2) Schematic Diagram

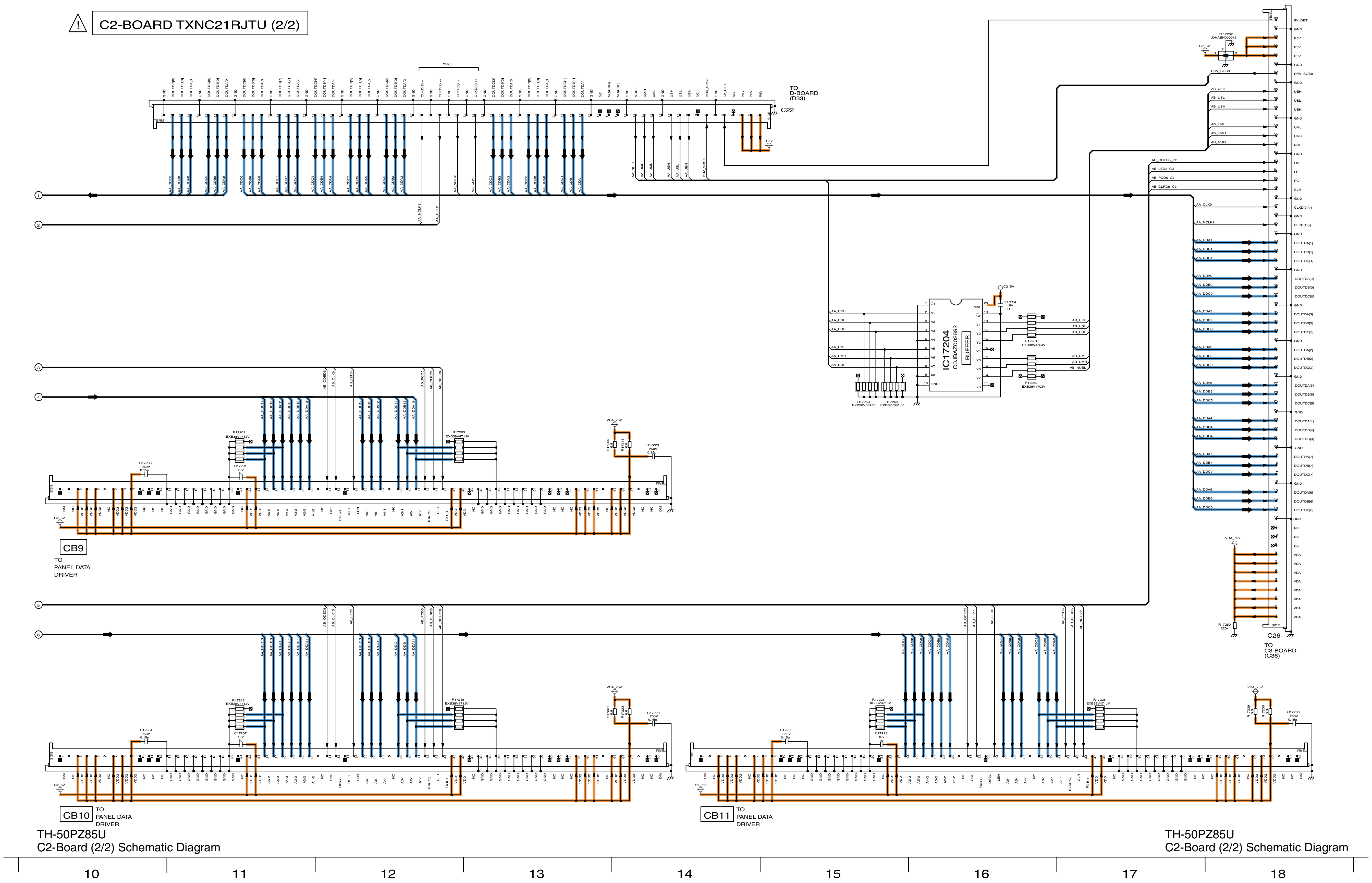
TH-50PZ85U
C1-Board (2/2) Schematic Diagram

10 11 12 13 14 15 16 17 18

11.27. C2-Board (1/2) Schematic Diagram


C2-BOARD TXNC21RJTU (1/2)
TO
D-BOARD
(D32)
C21
FL17201
J0HABH000013
C20
TO
C1-BOARD
(C10)
IC17201
C0JBAZ002692
BUFFER
IC17202
C0JBAZ002692
BUFFER
IC17203
C0JBAZ002692
BUFFER
R17254
EXB38V470JV
R17257
EXB38V220JV
R17259
EXB38V220JV
R17258
EXB38V681JV
R17251
EXB38V470JV
R17252
EXB38V470JV
R17253
EXB38V681JV
CB7
TO
PANEL DATA
DRIVER
CB8
TO
PANEL DATA
DRIVER
ZA17205
K4AD01Z00001
ZA17204
K4AD01Z00001
ZA17201
K4AD01Z00001
ZA17202
K4AD01Z00001
ZA17203
K4AD01Z00001
C21
C22
C20
C26
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

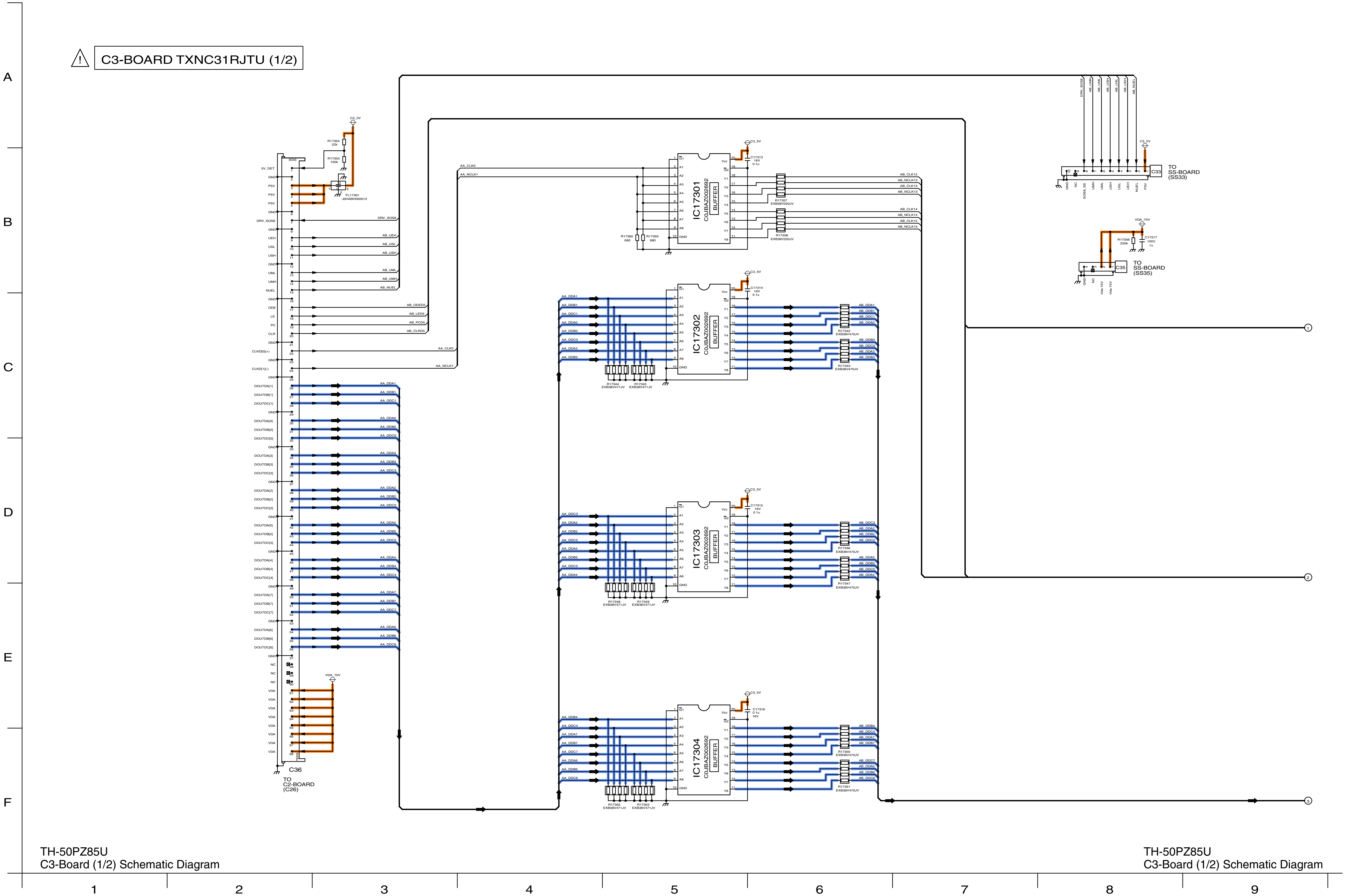
11.28. C2-Board (2/2) Schematic Diagram


C2-BOARD TXNC21RJTU (2/2)
TO D-BOARD (D33)
C22
CLK_L
IC17204
C0JBAZ002692
BUFFER
FL17202
J0HABH000013
C2_5V
DRV_SOS8
C17224
R17261
EXB38V470JV
R17262
EXB38V470JV
R17263
EXB38V681JV
R17264
EXB38V681JV
C26
TO C3-BOARD (C36)
VDA_75V
R17260
220k
R17201
EXB38V471JV
R17203
EXB38V471JV
C17201
C17233
C17228
R17213
R17215
C17207
C17234
C17229
R17225
R17226
C17213
C17235
C17230
CB9
TO PANEL DATA DRIVER
CB10
TO PANEL DATA DRIVER
CB11
TO PANEL DATA DRIVER
1
2
3
4
5
6
10
11
12
13
14
15
16
17
18

TH-50PZ85U
C2-Board (2/2) Schematic Diagram

TH-50PZ85U
C2-Board (2/2) Schematic Diagram

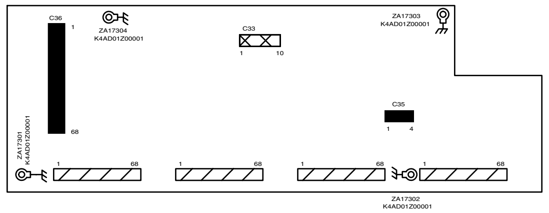
11.29. C3-Board (1/2) Schematic Diagram

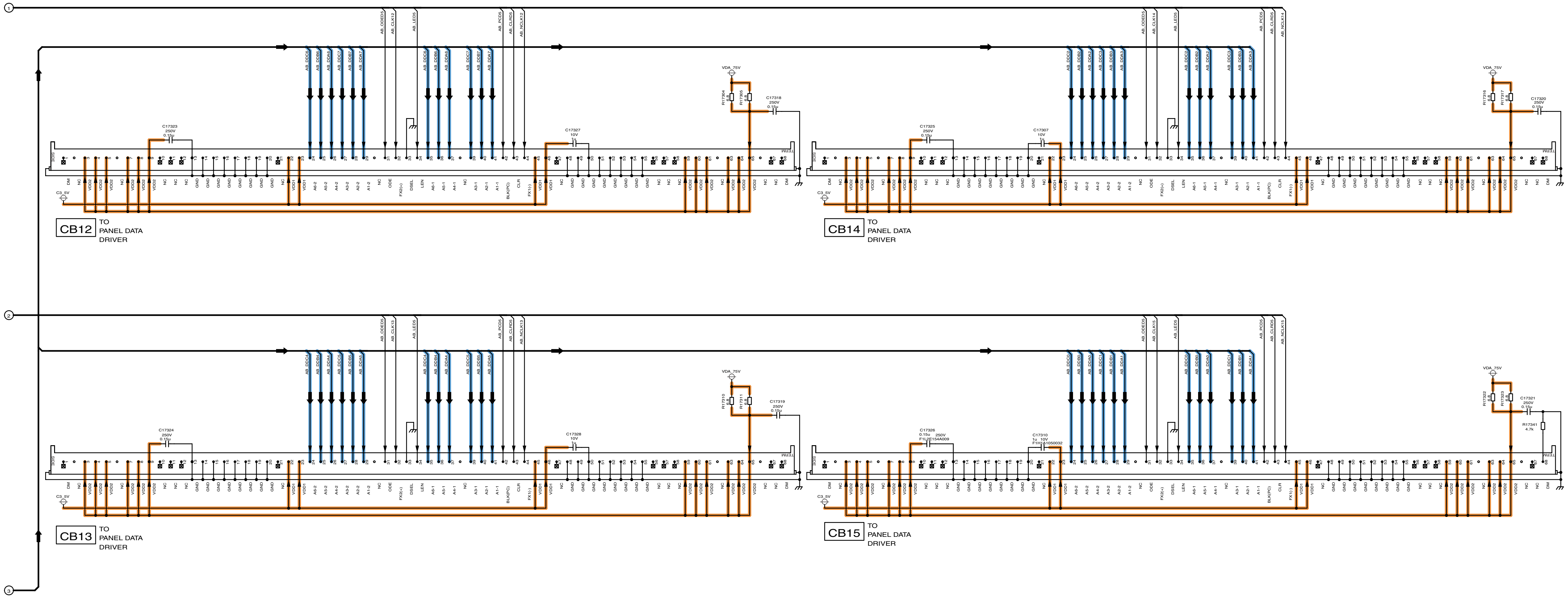


C3-BOARD TXNC31RJTU (1/2)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
IC17301
C0JBAZ002692
BUFFER
IC17302
C0JBAZ002692
BUFFER
IC17303
C0JBAZ002692
BUFFER
IC17304
C0JBAZ002692
BUFFER
C33
TO SS-BOARD (SS33)
C35
TO SS-BOARD (SS35)
C36
TO C2-BOARD (C26)
C3_5V
VDA_75V
FL17301
R17354
R17355
R17357
R17358
R17359
R17360
R17342
R17343
R17344
R17345
R17346
R17347
R17348
R17349
R17350
R17351
R17352
R17353
R17356
C17313
C17314
C17315
C17316
C17317
AA_CLK0
AA_NCLK1
DRV_SOS6
AB_CLK12
AB_NCLK12
AB_CLK13
AB_NCLK13
AB_CLK14
AB_NCLK14
AB_CLK15
AB_NCLK15
①
②
③

11.30. C3-Board (2/2) Schematic Diagram

⚠ C3-BOARD TXNC31RJTU (2/2)


C36
ZA17304
K4AD01Z00001
C33
ZA17303
K4AD01Z00001
C35
ZA17301
K4AD01Z00001
ZA17302
K4AD01Z00001

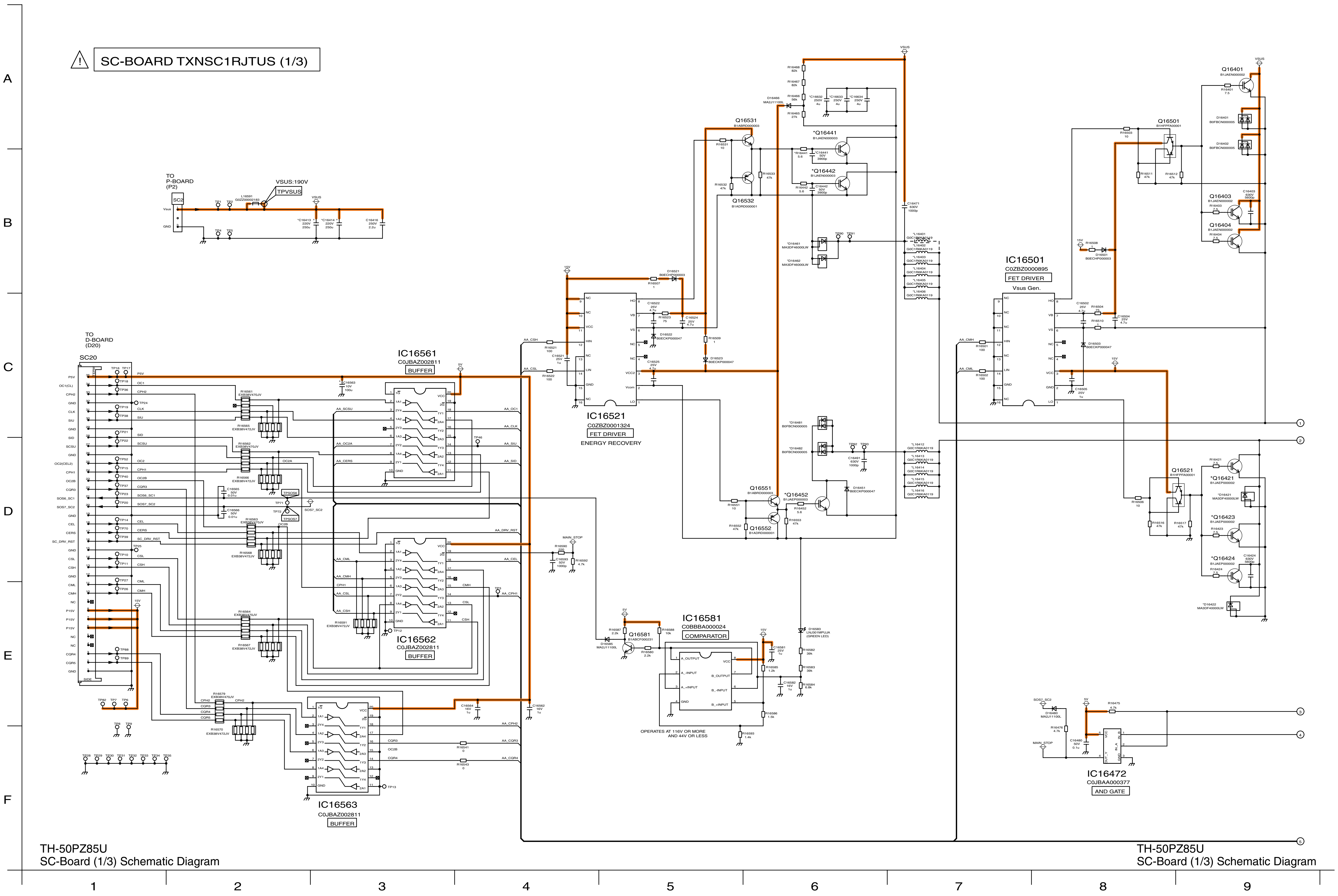

CB12
TO
PANEL DATA
DRIVER
CB14
TO
PANEL DATA
DRIVER
CB13
TO
PANEL DATA
DRIVER
CB15
TO
PANEL DATA
DRIVER
VDA_75V
C3_5V
1
2
3

TH-50PZ85U
C3-Board (2/2) Schematic Diagram

TH-50PZ85U
C3-Board (2/2) Schematic Diagram

10	11	12	13	14	15	16	17	18

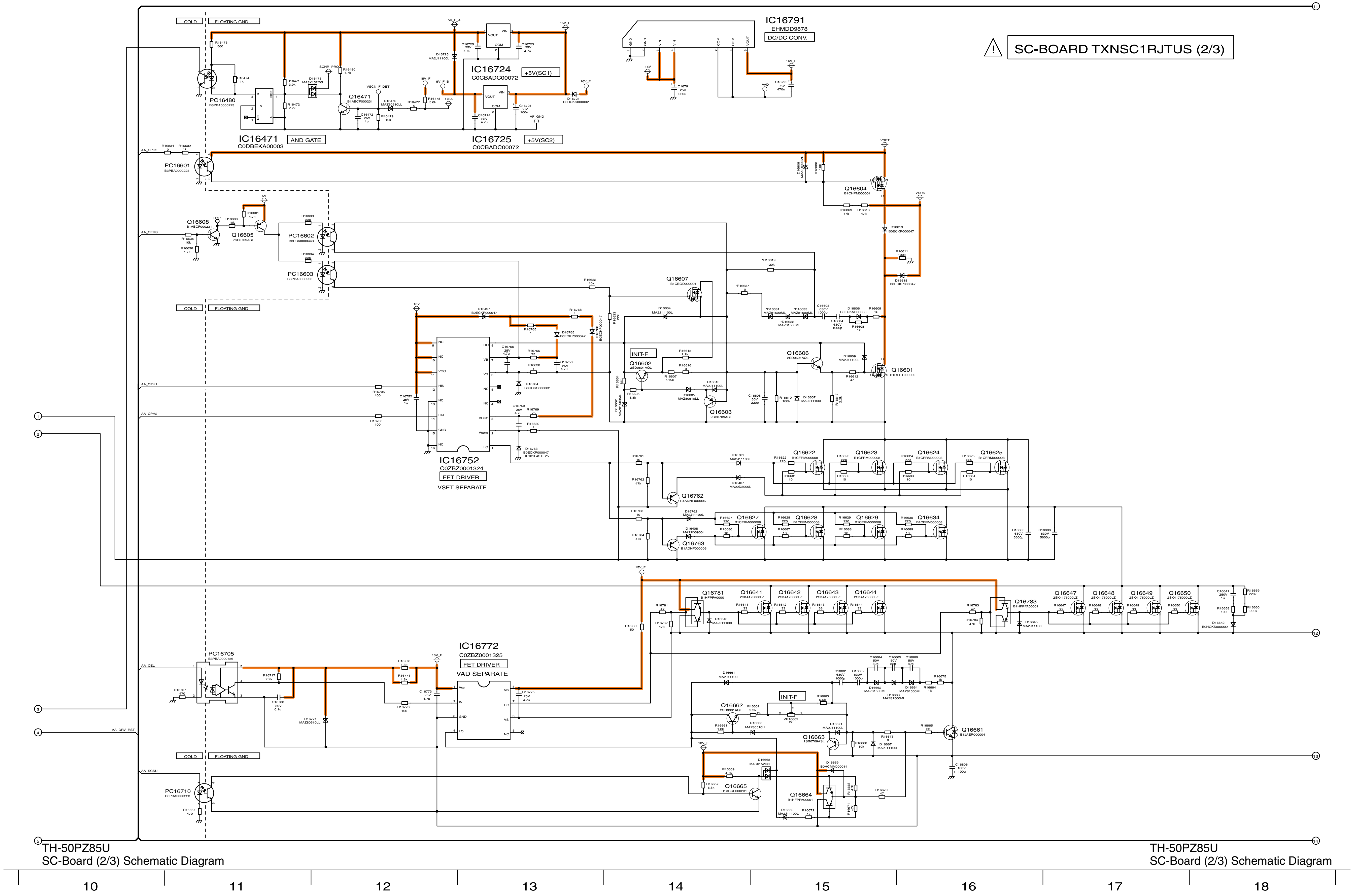
11.31. SC-Board (1/3) Schematic Diagram


SC-BOARD TXNSC1RJTUS (1/3)
TO P-BOARD (P2)
SC2
VSUS:190V
TPVSUS
VSUS
TO D-BOARD (D20)
SC20
IC16561
C0JBAZ002811
BUFFER
IC16562
C0JBAZ002811
BUFFER
IC16563
C0JBAZ002811
BUFFER
IC16521
C0ZBZ0001324
FET DRIVER
ENERGY RECOVERY
IC16501
C0ZBZ0000895
FET DRIVER
Vsus Gen.
IC16581
C0BBBA000024
COMPARATOR
OPERATES AT 116V OR MORE AND 44V OR LESS
IC16472
C0JBAA000377
AND GATE
Q16531
Q16532
*Q16441
*Q16442
Q16551
Q16552
*Q16452
Q16581
Q16401
Q16501
Q16403
Q16404
Q16521
*Q16421
*Q16423
*Q16424
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-50PZ85U
SC-Board (1/3) Schematic Diagram

TH-50PZ85U
SC-Board (1/3) Schematic Diagram

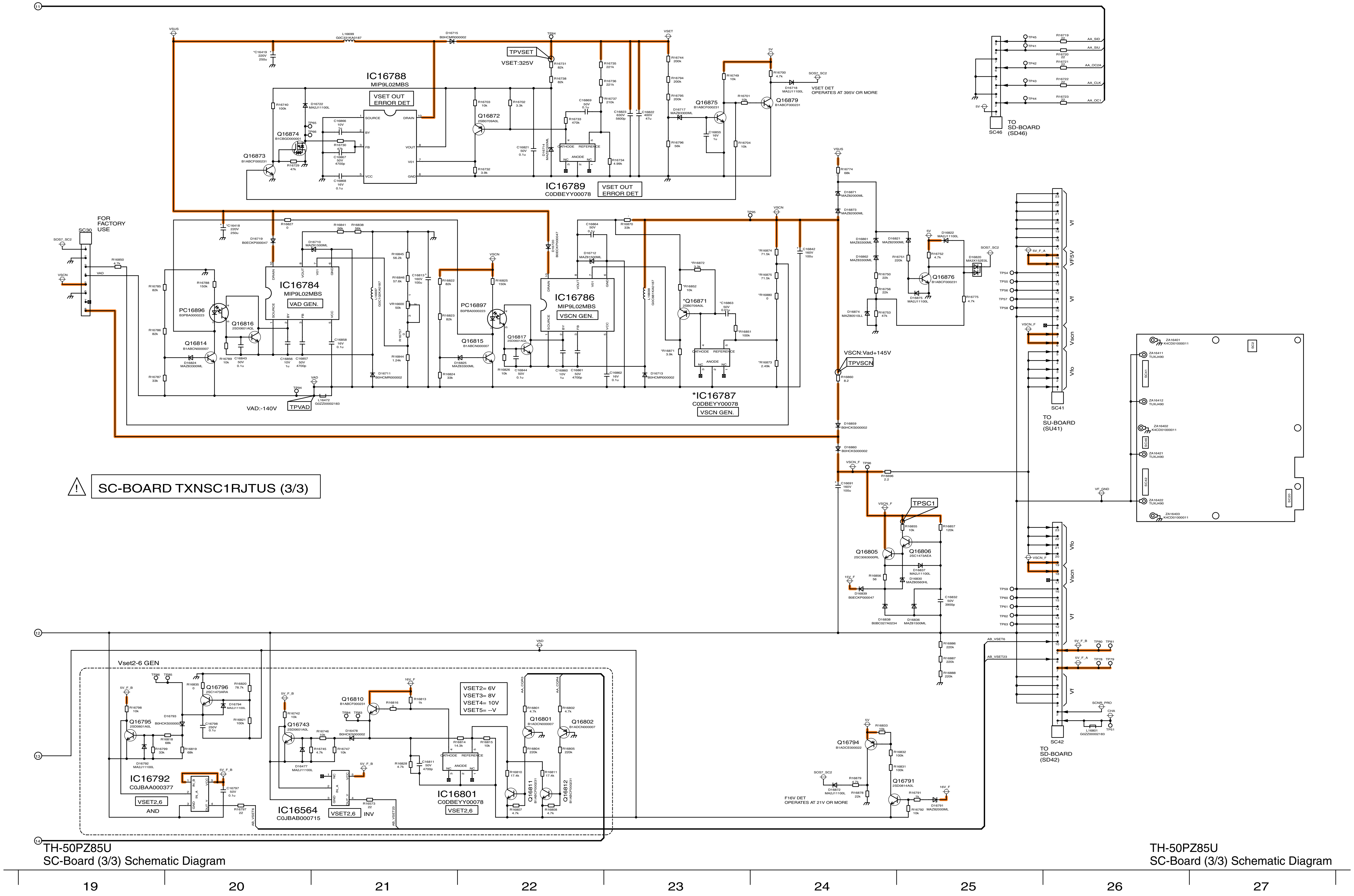
11.32. SC-Board (2/3) Schematic Diagram


SC-BOARD TXNSC1RJTUS (2/3)
COLD
FLOATING GND
PC16480
B3PBA0000223
IC16471
C0DBEKA00003
AND GATE
Q16471
B1ABCF000231
IC16724
C0CBADC00072
+5V(SC1)
IC16725
C0CBADC00072
+5V(SC2)
IC16791
EHMDD9878
DC/DC CONV.
5V_F_A
15V_F
16V_F
VSCN_F_DET
SCNR_PRO
CHA
VF_GND
VAD
VSET
VSUS
AA_CPH2
AA_CERS
AA_CPH1
AA_CEL
AA_DRV_RST
AA_SCSU
PC16601
B3PBA0000223
Q16608
B1ABCF000231
Q16605
2SB0709ASL
PC16602
B3PBA0000443
PC16603
B3PBA0000223
Q16604
B1CHPM000001
Q16607
B1CBGD000001
Q16601
B1DEET000002
Q16606
2SD0601AQL
Q16602
2SD0601AQL
INIT-F
Q16603
2SB0709ASL
IC16752
C0ZBZ0001324
FET DRIVER
VSET SEPARATE
Q16762
B1ADNF000006
Q16763
B1ADNF000006
Q16622
Q16623
Q16624
Q16625
Q16627
Q16628
Q16629
Q16634
B1CFRM000008
Q16781
B1HFPFA00001
Q16641
Q16642
Q16643
Q16644
2SK4175000LZ
Q16783
B1HFPFA00001
Q16647
Q16648
Q16649
Q16650
2SK4175000LZ
PC16705
B3PBA0000456
IC16772
C0ZBZ0001325
FET DRIVER
VAD SEPARATE
Q16662
2SD0601AQL
INIT-F
Q16663
2SB0709ASL
Q16661
B1JAER000004
Q16665
B1ABCF000231
Q16664
B1HFPFA00001
PC16710
B3PBA0000223
1
2
3
4
5
11
12
13
14
10
11
12
13
14
15
16
17
18

TH-50PZ85U
SC-Board (2/3) Schematic Diagram

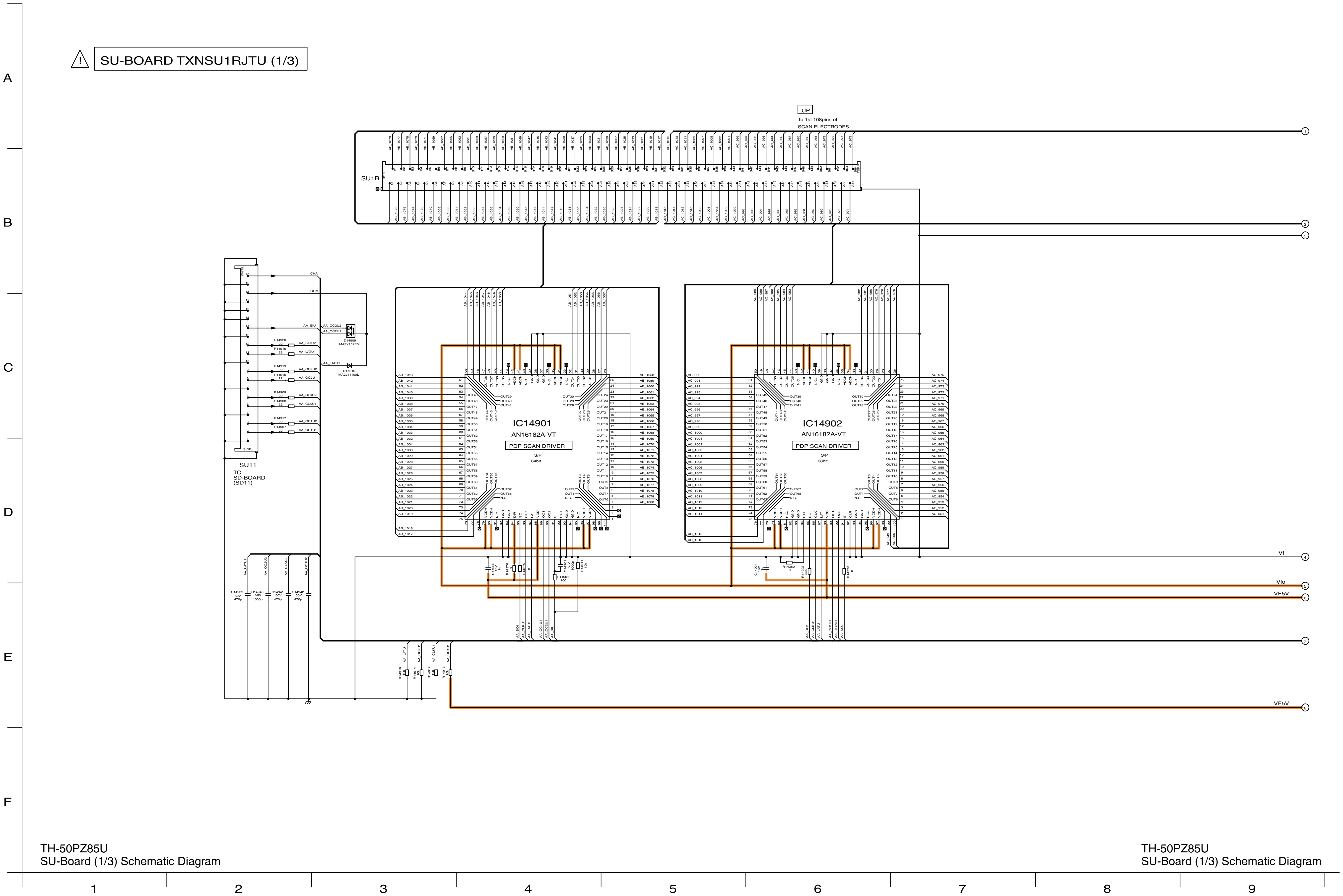
TH-50PZ85U
SC-Board (2/3) Schematic Diagram

11.33. SC-Board (3/3) Schematic Diagram



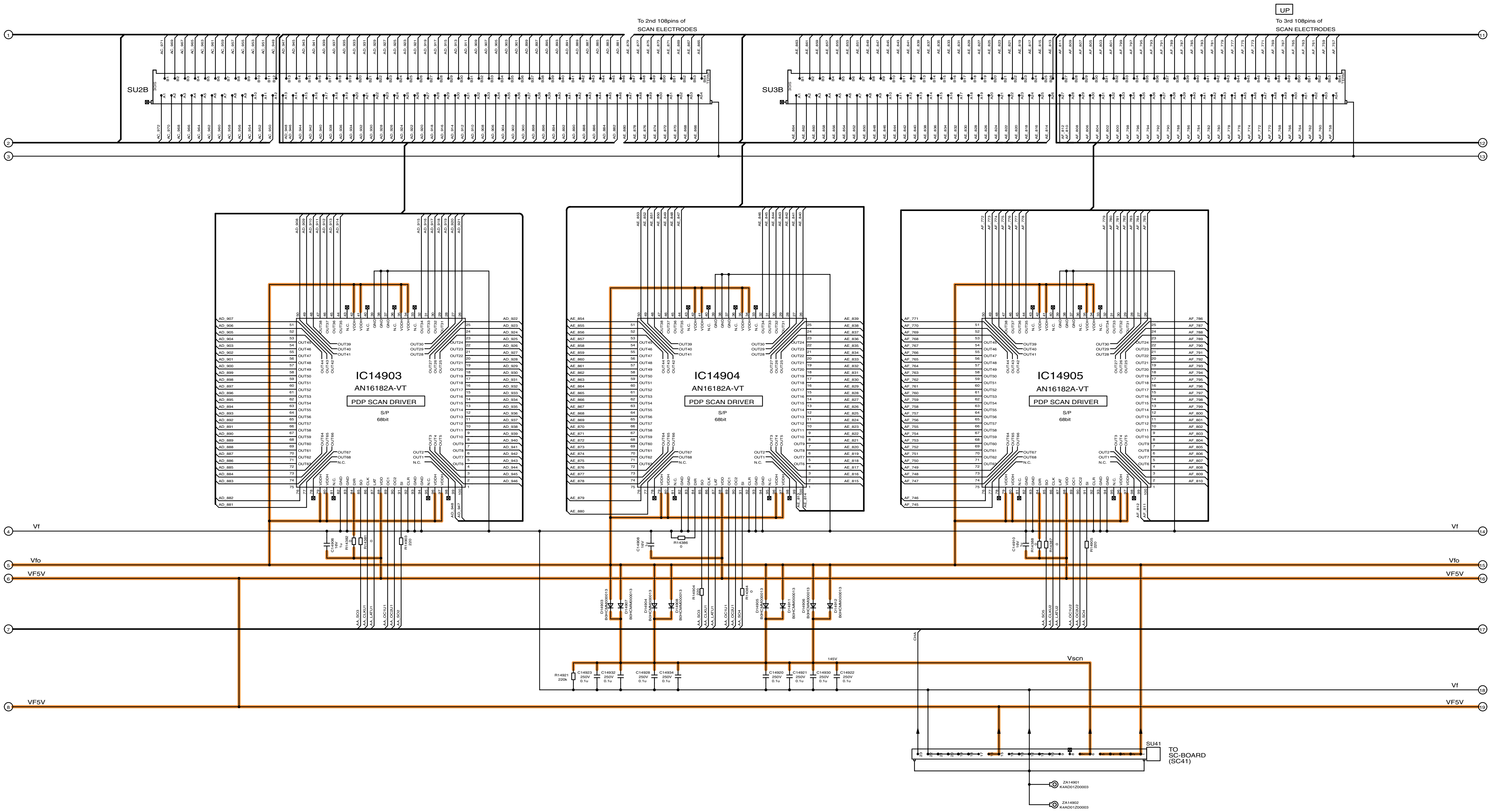
SC-BOARD TXNSC1RJTUS (3/3)
IC16788
MIP9L02MBS
VSET OUT
ERROR DET
TPVSET
VSET:325V
IC16789
C0DBEYY00078
VSET OUT
ERROR DET
Q16872
Q16873
Q16874
Q16875
Q16879
VSET DET
OPERATES AT 395V OR MORE
IC16784
MIP9L02MBS
VAD GEN.
IC16786
MIP9L02MBS
VSCN GEN.
*IC16787
C0DBEYY00078
VSCN GEN.
*Q16871
PC16896
PC16897
Q16814
Q16815
Q16816
Q16817
TPVAD
VAD:-140V
VSCN:Vad+145V
TPVSCN
TPSC1
Q16805
Q16806
Q16876
SC30
FOR
FACTORY
USE
SC46
TO
SD-BOARD
(SD46)
SC41
TO
SU-BOARD
(SU41)
SC42
TO
SD-BOARD
(SD42)
Vset2-6 GEN
Q16795
Q16796
IC16792
C0JBAA000377
VSET2,6
AND
Q16743
Q16810
IC16564
C0JBAB000715
VSET2,6
INV
VSET2= 6V
VSET3= 8V
VSET4= 10V
VSET5= --V
IC16801
C0DBEYY00078
VSET2,6
Q16801
Q16802
Q16811
Q16812
Q16794
Q16791
F16V DET
OPERATES AT 21V OR MORE
TH-50PZ85U
SC-Board (3/3) Schematic Diagram
TH-50PZ85U
SC-Board (3/3) Schematic Diagram
19
20
21
22
23
24
25
26
27

11.34. SU-Board (1/3) Schematic Diagram


SU-BOARD TXNSU1RJTU (1/3)
UP
To 1st 108pins of
SCAN ELECTRODES
SU1B
SU11
TO
SD-BOARD
(SD11)
CHA
OCM
D14909
MA3X152E0L
D14910
MA2J1100L
IC14901
AN16182A-VT
PDP SCAN DRIVER
S/P
64bit
IC14902
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
Vf
Vfo
VF5V
VF5V
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TH-50PZ85U
SU-Board (1/3) Schematic Diagram
TH-50PZ85U
SU-Board (1/3) Schematic Diagram

11.35. SU-Board (2/3) Schematic Diagram

⚠ SU-BOARD TXNSU1RJTU (2/3)



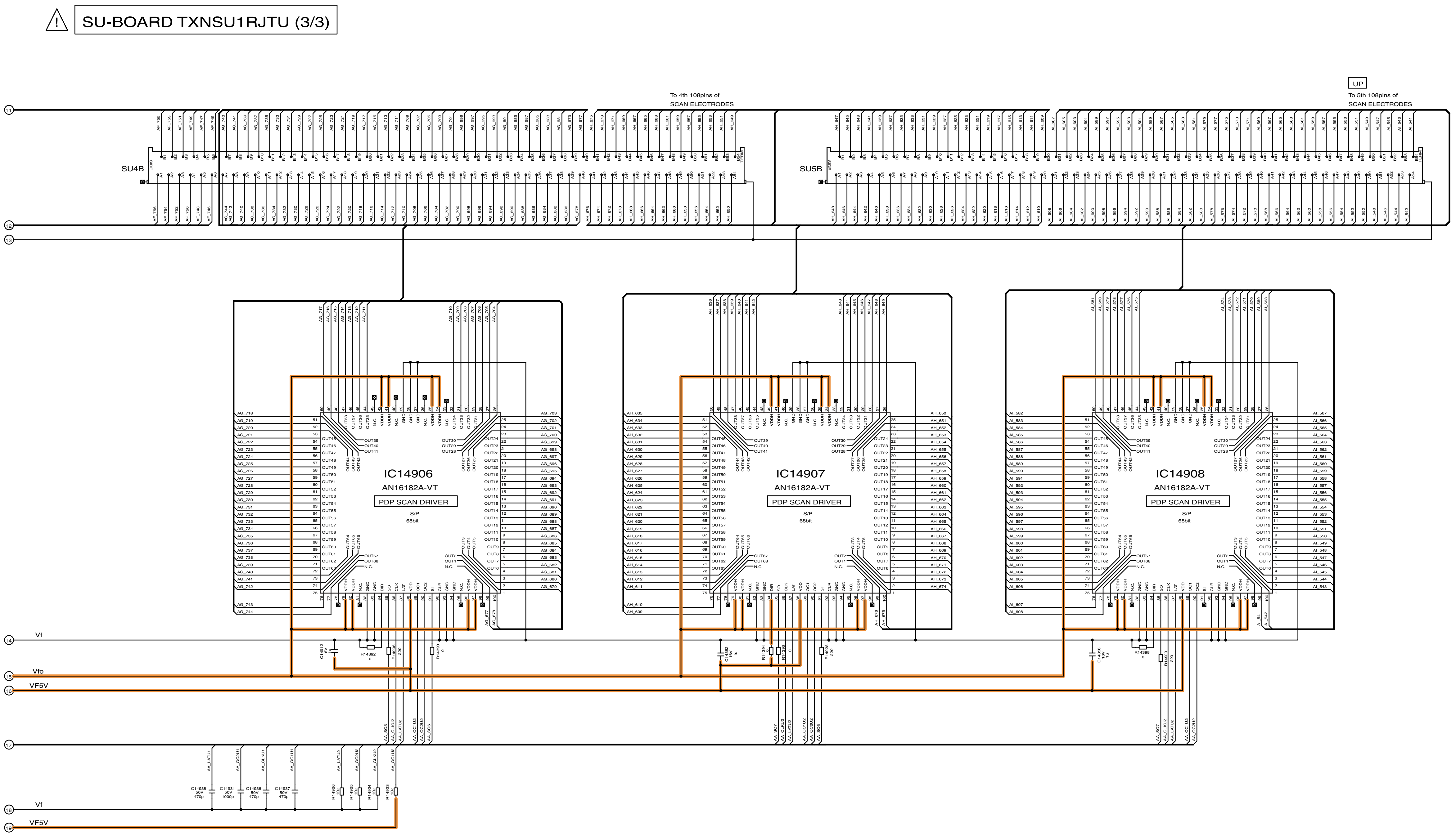
UP
To 2nd 108pins of SCAN ELECTRODES
To 3rd 108pins of SCAN ELECTRODES
SU2B
SU3B
IC14903
AN16182A-VT
PDP SCAN DRIVER
S/P 68bit
IC14904
AN16182A-VT
PDP SCAN DRIVER
S/P 68bit
IC14905
AN16182A-VT
PDP SCAN DRIVER
S/P 68bit
Vf
Vfo
VF5V
Vscn
SU41
TO SC-BOARD (SC41)
ZA14901 K4AD01Z00003
ZA14902 K4AD01Z00003

TH-50PZ85U
SU-Board (2/3) Schematic Diagram

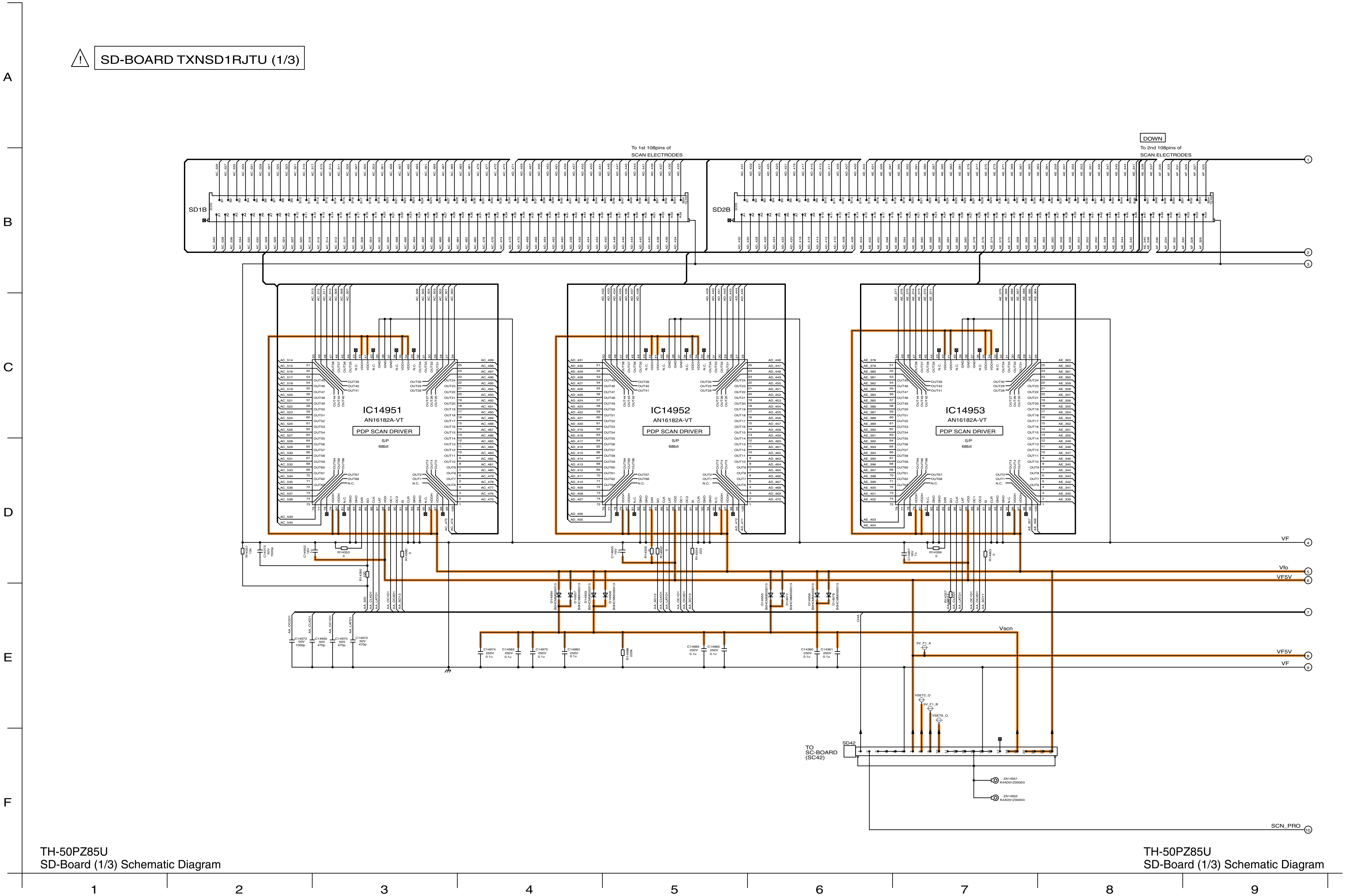
TH-50PZ85U
SU-Board (2/3) Schematic Diagram

10	11	12	13	14	15	16	17	18

11.36. SU-Board (3/3) Schematic Diagram


SU-BOARD TXNSU1RJTU (3/3)
To 4th 108pins of SCAN ELECTRODES
UP
To 5th 108pins of SCAN ELECTRODES
SU4B
SU5B
IC14906
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14907
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14908
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
Vf
Vfo
VF5V
Vf
VF5V
11
12
13
14
15
16
17
18
19

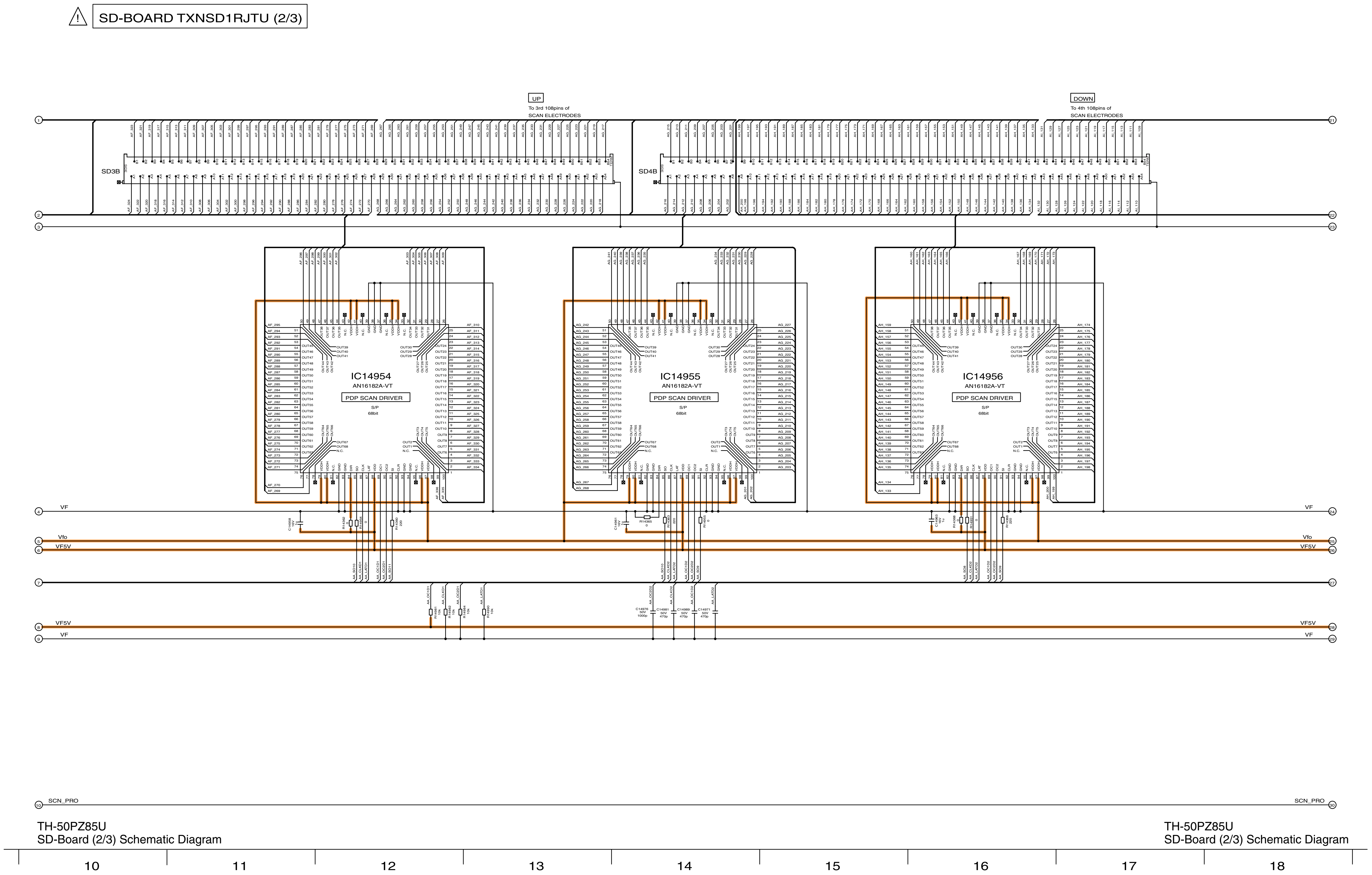
11.37. SD-Board (1/3) Schematic Diagram


SD-BOARD TXNSD1RJTU (1/3)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
To 1st 108pins of SCAN ELECTRODES
DOWN
To 2nd 108pins of SCAN ELECTRODES
SD1B
SD2B
IC14951
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14952
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14953
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
VF
Vfo
VF5V
Vscn
VF5V
VF
TO SC-BOARD (SC42)
SD42
ZA14951 K4AD01Z00003
ZA14952 K4AD01Z00003
SCN_PRO

TH-50PZ85U
SD-Board (1/3) Schematic Diagram

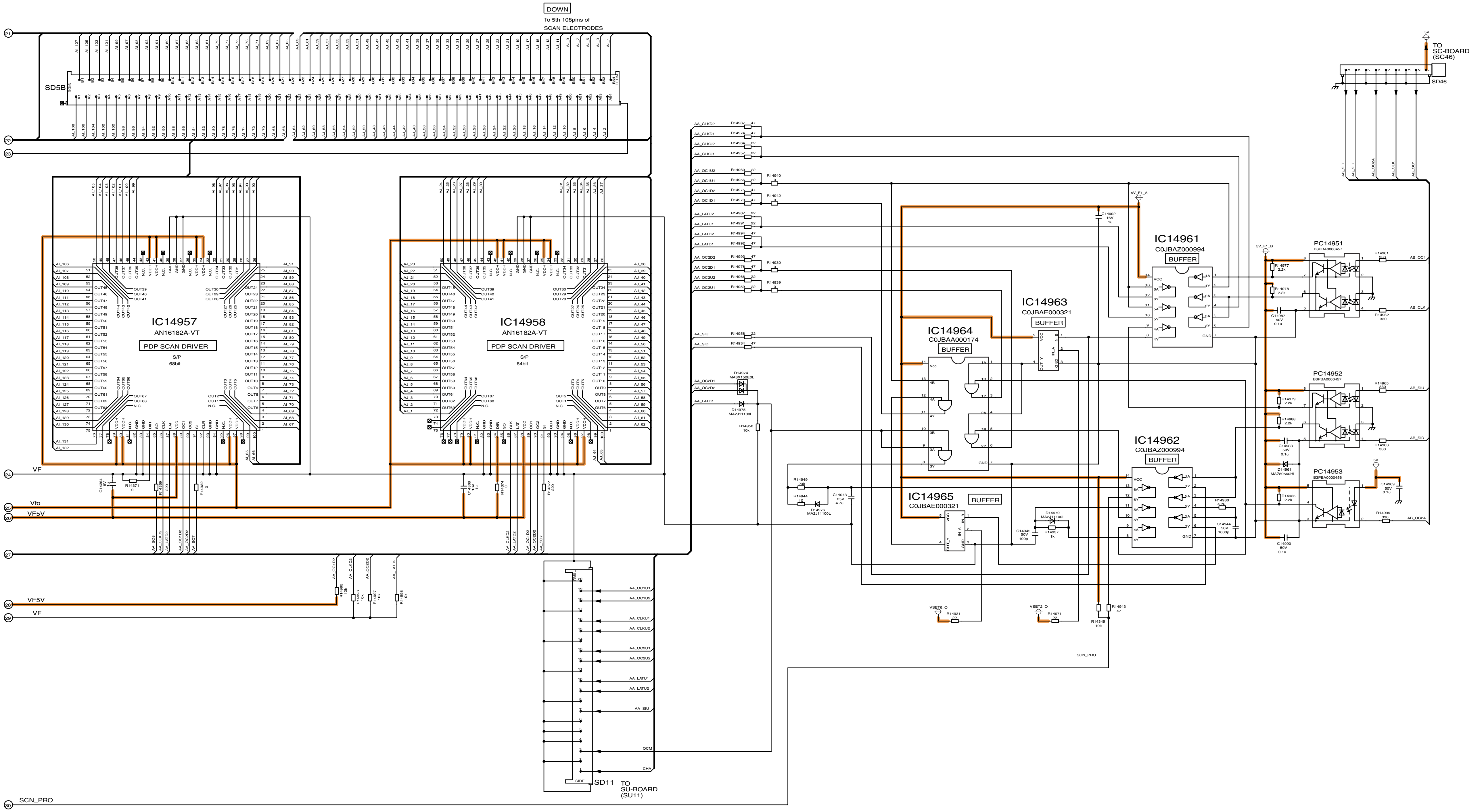
TH-50PZ85U
SD-Board (1/3) Schematic Diagram

11.38. SD-Board (2/3) Schematic Diagram

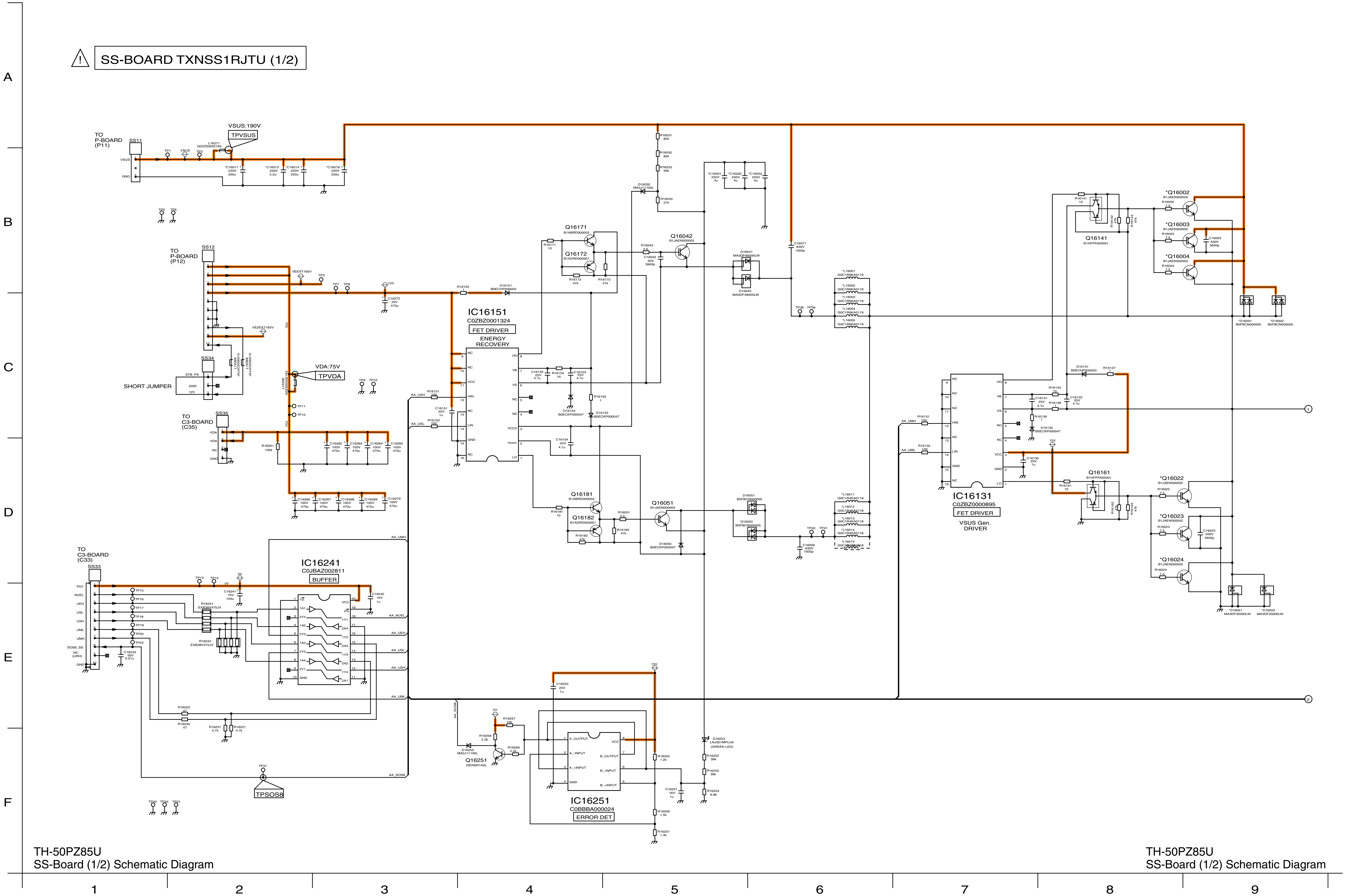

SD-BOARD TXNSD1RJTU (2/3)
UP
To 3rd 108pins of
SCAN ELECTRODES
DOWN
To 4th 108pins of
SCAN ELECTRODES
SD3B
SD4B
IC14954
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14955
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14956
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
VF
Vfo
VF5V
VF5V
VF
SCN_PRO
TH-50PZ85U
SD-Board (2/3) Schematic Diagram
TH-50PZ85U
SD-Board (2/3) Schematic Diagram
10
11
12
13
14
15
16
17
18

11.39. SD-Board (3/3) Schematic Diagram

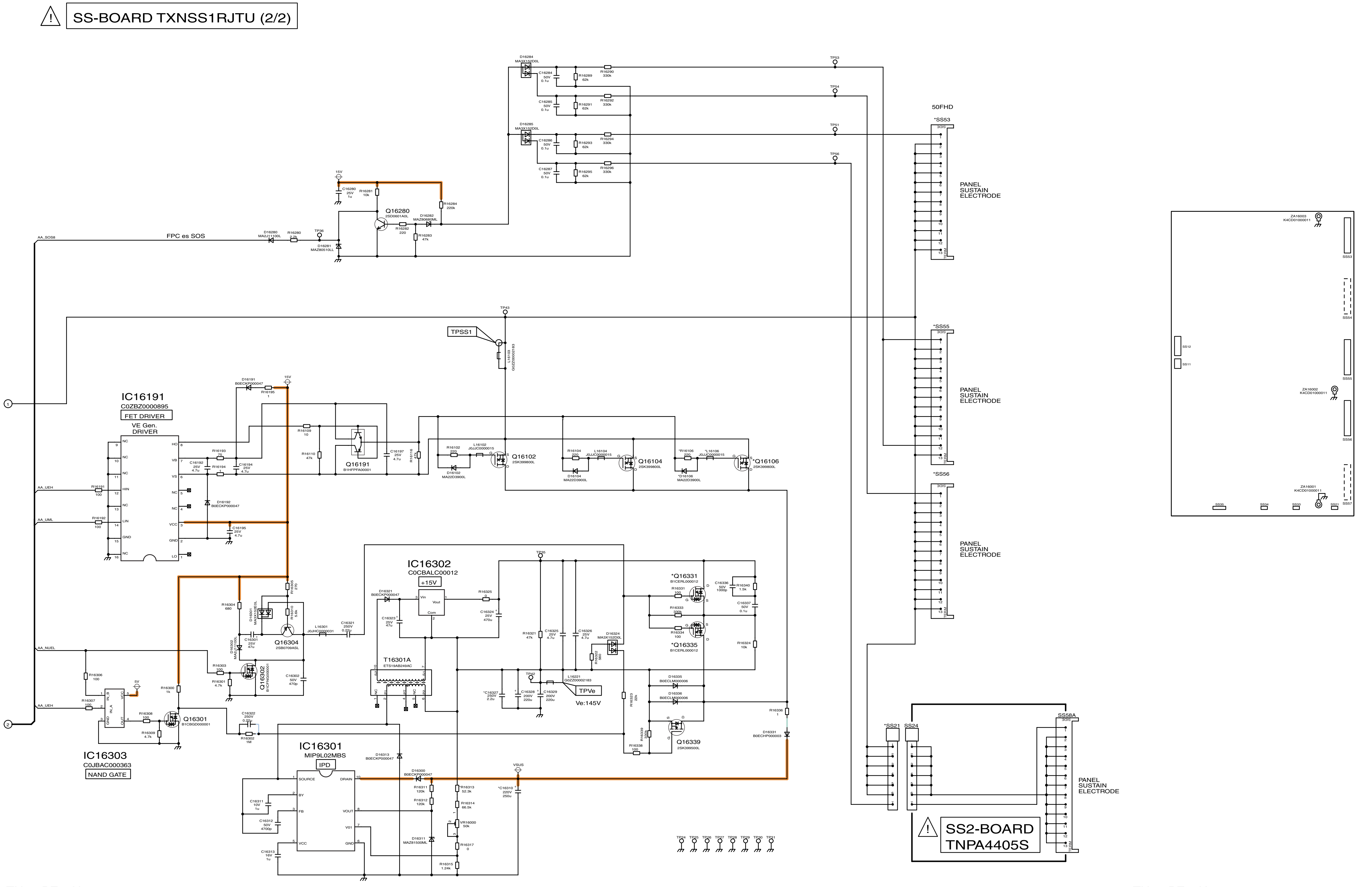
⚠ SD-BOARD TXNSD1RJTU (3/3)


DOWN
To 5th 108pins of
SCAN ELECTRODES
SD5B
IC14957
AN16182A-VT
PDP SCAN DRIVER
S/P
68bit
IC14958
AN16182A-VT
PDP SCAN DRIVER
S/P
64bit
IC14961
C0JBAZ000994
BUFFER
IC14962
C0JBAZ000994
BUFFER
IC14963
C0JBAE000321
BUFFER
IC14964
C0JBAA000174
BUFFER
IC14965
C0JBAE000321
BUFFER
PC14951
B3PBA0000457
PC14952
B3PBA0000457
PC14953
B3PBA0000456
TO
SC-BOARD
(SC46)
SD46
SD11
TO
SU-BOARD
(SU11)
VF
Vfo
VF5V
VF5V
VF
SCN_PRO
21
22
23
24
25
26
27
28
29
30

11.40. SS-Board (1/2) Schematic Diagram


⚠ SS-BOARD TXNSS1RJTU (1/2)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO P-BOARD (P11)
SS11
VSUS:190V
TPVSUS
TO P-BOARD (P12)
SS12
SS34
SHORT JUMPER
VDA:75V
TPVDA
TO C3-BOARD (C35)
SS35
TO C3-BOARD (C33)
SS33
IC16151
C0ZBZ0001324
FET DRIVER
ENERGY RECOVERY
Q16171
Q16172
Q16042
Q16181
Q16182
Q16051
IC16241
C0JBAZ002811
BUFFER
IC16251
C0BBBA000024
ERROR DET
Q16251
TPSOS8
IC16131
C0ZBZ0000895
FET DRIVER
VSUS Gen. DRIVER
Q16141
Q16161
*Q16002
*Q16003
*Q16004
*Q16022
*Q16023
*Q16024
D16253
(GREEN LED)
①
②

11.41. SS-Board (2/2) and SS2-Board Schematic Diagram


SS-BOARD TXNSS1RJTU (2/2)
AA_SOS8
FPC es SOS
Q16280
2SD0601A0L
D16280
D16281
D16282
D16284
D16285
50FHD
*SS53
PANEL
SUSTAIN
ELECTRODE
*SS55
*SS56
TP43
TPSS1
IC16191
C0ZBZ0000895
FET DRIVER
VE Gen.
DRIVER
AA_UEH
AA_UML
AA_NUEL
Q16191
B1HFPPA00001
Q16102
2SK3998-00L
Q16104
2SK3998-00L
*Q16106
2SK3998-00L
IC16302
C0CBALC00012
+15V
T16301A
ETS19AB249AC
*Q16331
*Q16335
Q16339
TPVe
Ve:145V
Q16304
2SB0709ASL
Q16302
IC16303
C0JBAC000363
NAND GATE
Q16301
IC16301
MIP9L02MBS
IPD
SOURCE
DRAIN
VSUS
*SS21
SS24
SS58A
SS2-BOARD
TNPA4405S
SS53
SS54
SS55
SS56
SS57
SS12
SS11
SS35
SS34
SS31
SS33
ZA16003
ZA16002
ZA16001
K4CD01000011

TH-50PZ85U
SS-Board (2/2) and SS2-Board Schematic Diagram

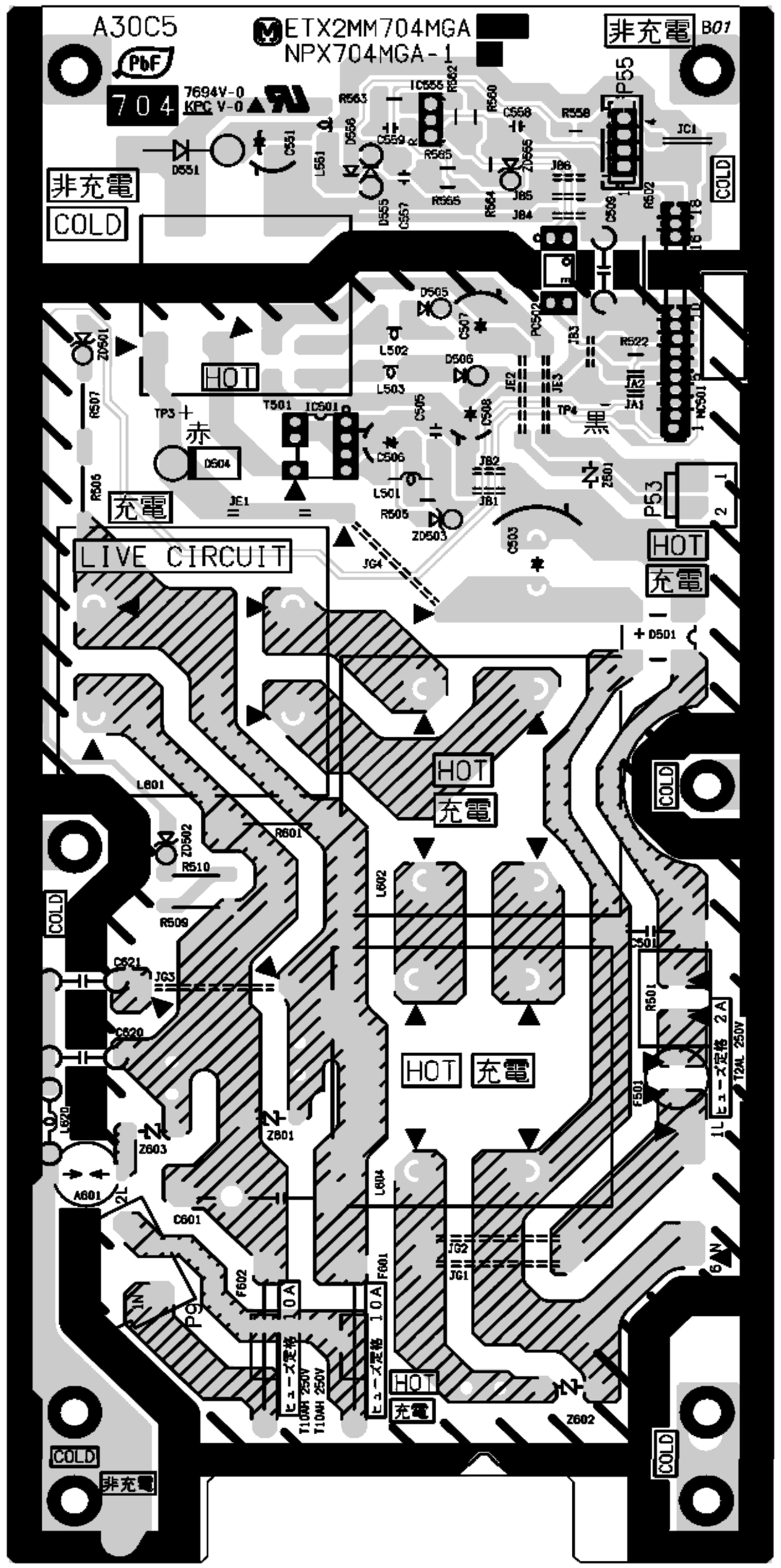
TH-50PZ85U
SS-Board (2/2) and SS2-Board Schematic Diagram

10	11	12	13	14	15	16	17	18

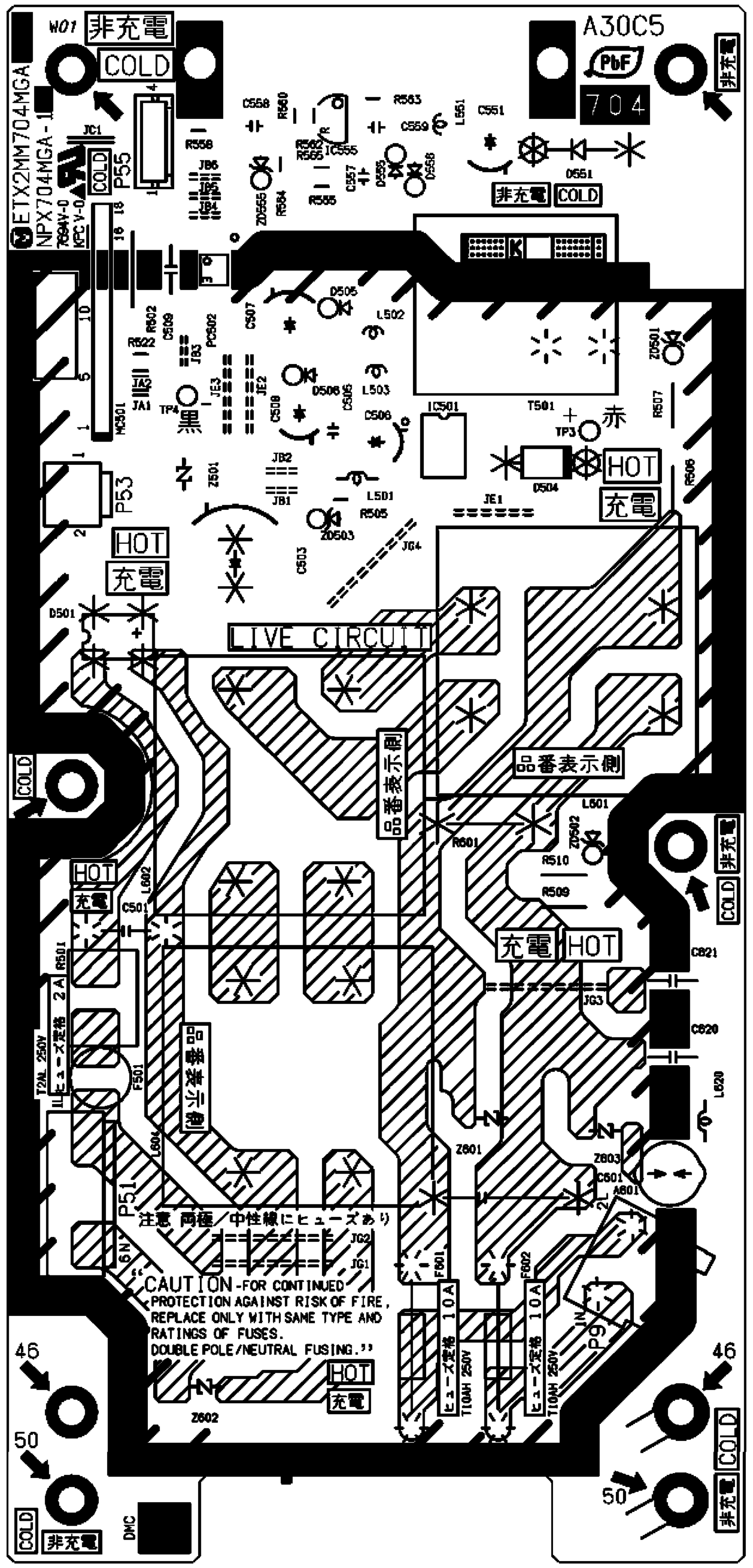
12 Printed Circuit Board

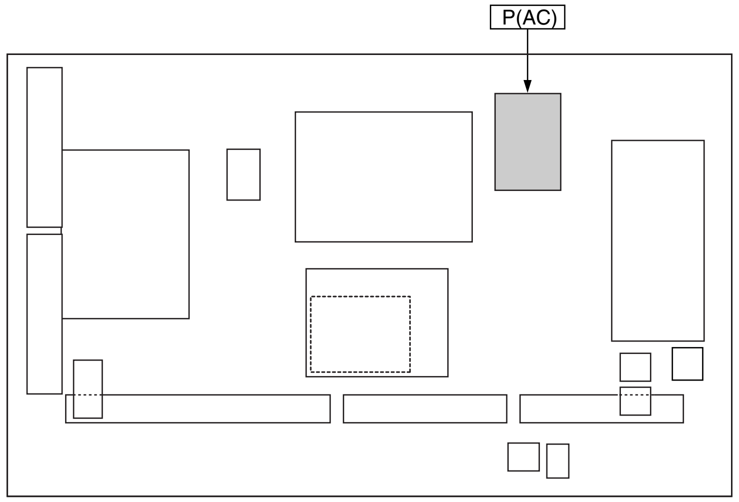
12.1. P(AC)-Board

P(AC)-BOARD ETX2MM704MGA (FOIL SIDE)


A30C5
ETX2MM704MGA
NPX704MGA-1
非充電
COLD
HOT
充電
LIVE CIRCUIT
IC501
IC555
TP3
TP4
MC501
P55
P53
P9
F501
F601
F602
T501
D501
Z601
Z602
Z603
A601
L601
L602
L604
C601
C620
C621
10A
2A
6
5
4
3
2
1
A
B
C

P(AC)-BOARD ETX2MM704MGA (COMPONET SIDE)


A30C5
ETX2MM704MGA
NPX704MGA-1
W01
非充電
COLD
HOT
充電
LIVE CIRCUIT
品番表示側
注意 両極／中性線にヒューズあり
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSES. DOUBLE POLE/NEUTRAL FUSING.
IC501
IC555
TP3
TP4
MC501
P55
P53
P51
P9
F501
F601
F602
T501
D501
Z601
Z602
Z603
46
50
D
E
F



Parts Location

P-BOARD (FOIL SIDE)			
IC		TEST POINT	
IC501 IC555	B-5 B-6	TP3 TP4	A-5 C-5
MODULE			
MC501	C-5		

Parts Location

P-BOARD (COMPONENT SIDE)			
IC		TEST POINT	
IC501 IC555	E-5 E-6	TP3 TP4	F-5 D-5
MODULE			
MC501	D-5		

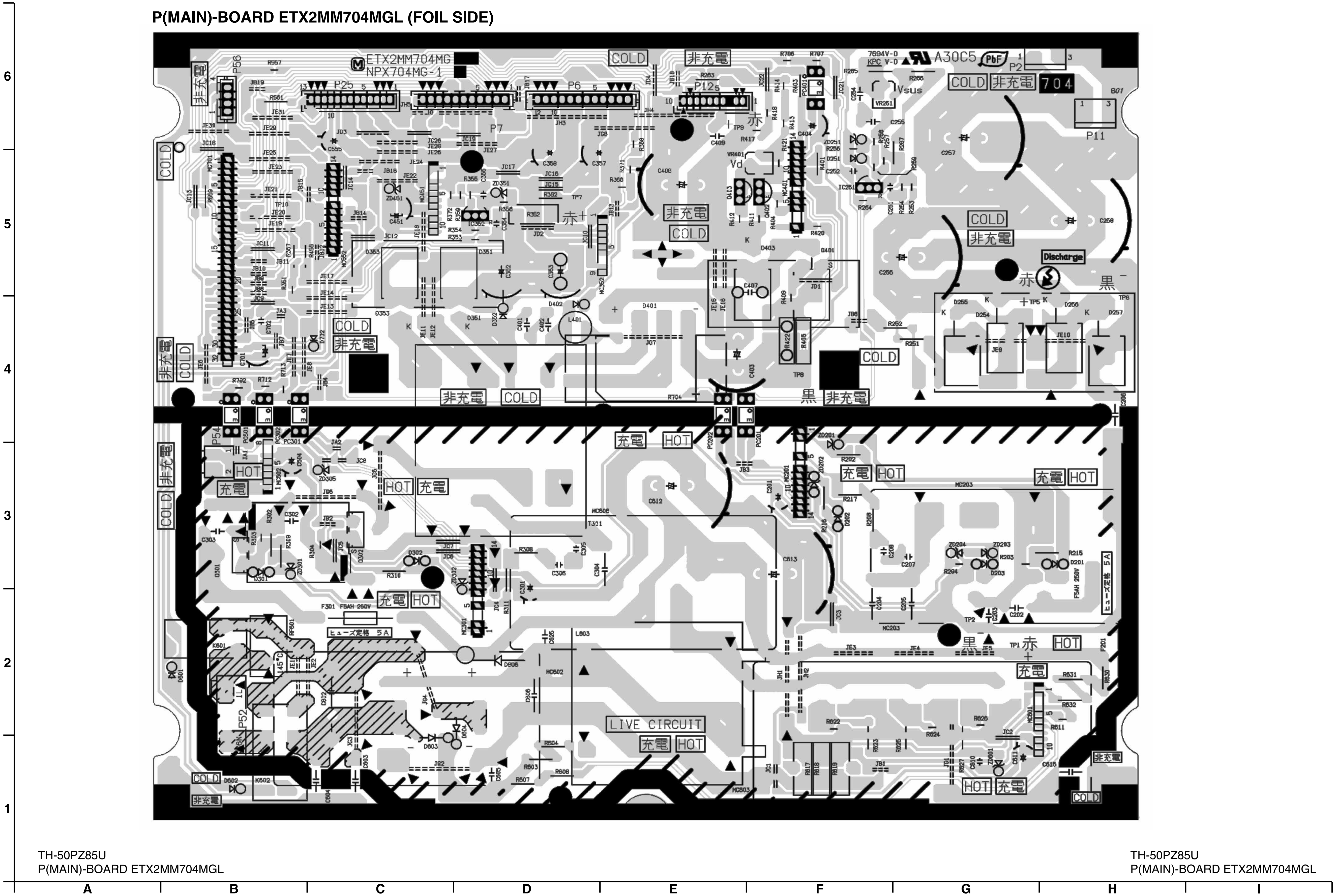
TH-50PZ85U
P(AC)-BOARD ETX2MM704MGA

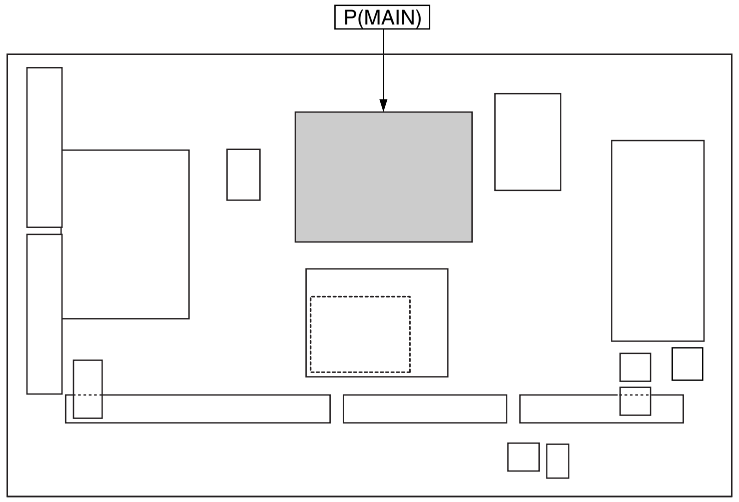
TH-50PZ85U
P(AC)-BOARD ETX2MM704MGA

G H I

12.2. P(MAIN)-Board

P(MAIN)-BOARD ETX2MM704MGL (FOIL SIDE)


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
ETX2MM704MG
NPX704MG-1
P25
P6
P7
P12
P56
P54
P52
P2
P11
COLD
非充電
HOT
充電
LIVE CIRCUIT
Discharge
Vsus
Vd
A30C5
704
赤
黒
F301 F5AH 250V
ヒューズ定格 5A
F201 F5AH 250V
TH-50PZ85U
P(MAIN)-BOARD ETX2MM704MGL



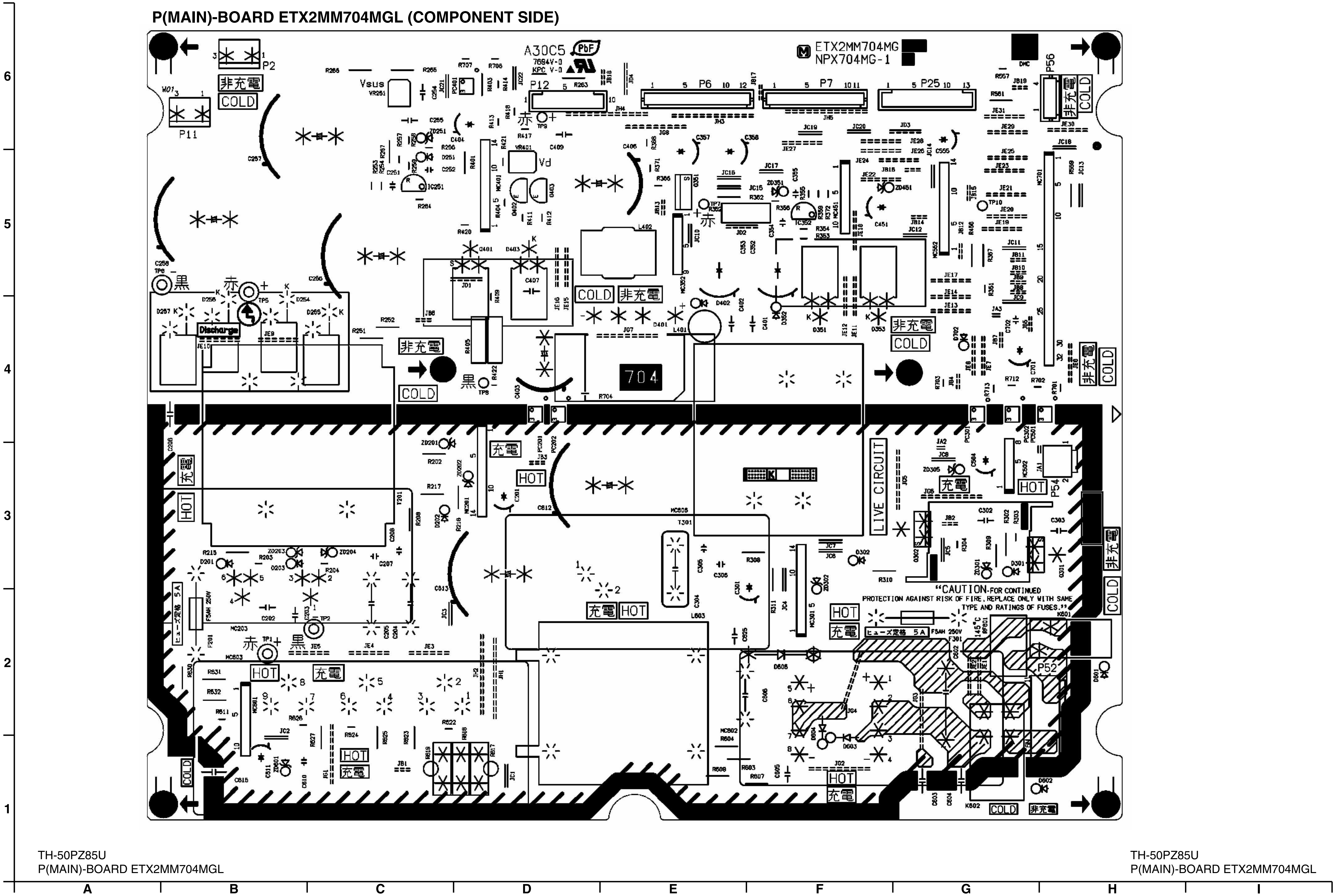
Parts Location

P-BOARD (FOIL SIDE)					
IC		**TRANSISTOR**		**VOLUME**	
IC251	F-5	Q301	B-3	VR251	F-6
IC352	D-5	Q302	C-3	VR401	F-5
MODULE		Q401	F-5		
MC201	F-3	Q402	E-5		
MC203	G-3	Q403	F-5		
MC301	D-2	**TEST POINT**			
MC352	E-5	TP1	G-2		
MC401	F-5	TP2	G-2		
MC451	C-5	TP5	G-4		
MC502	B-3	TP6	H-5		
MC552	C-5	TP7	D-5		
MC601	G-1	TP8	F-4		
MC602	D-2	TP9	E-6		
MC603	E-1	TP10	B-5		
MC606	E-3				
MC701	B-5				

Parts Location

P-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**VOLUME**	
IC251	C-5	Q301	H-3	VR251	C-6
IC352	F-5	Q302	G-3	VR401	D-5
MODULE		Q351	E-5		
MC201	D-3	Q401	D-5		
MC203	B-2	Q402	D-5		
MC301	F-2	Q403	D-5		
MC352	E-5	**TEST POINT**			
MC401	D-5	TP1	B-2		
MC451	F-5	TP2	C-2		
MC502	G-3	TP5	B-4		
MC552	G-5	TP6	B-5		
MC601	B-2	TP7	E-5		
MC602	E-2	TP8	D-4		
MC603	B-2	TP9	D-6		
MC606	E-3	TP10	G-5		
MC701	H-5				

P(MAIN)-BOARD ETX2MM704MGL (COMPONENT SIDE)



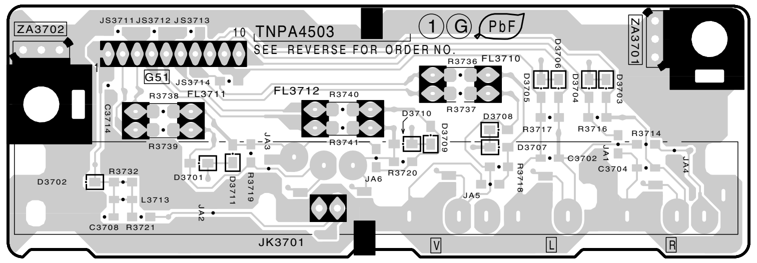
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
ETX2MM704MG
NPX704MG-1
A30C5
P2
P11
P12
P6
P7
P25
P56
P54
P52
Vsus
Vd
704
非充電
COLD
HOT
充電
LIVE CIRCUIT
Discharge
"CAUTION-FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSES."
ヒューズ定格 5A
F5AH 250V

TH-50PZ85U
P(MAIN)-BOARD ETX2MM704MGL

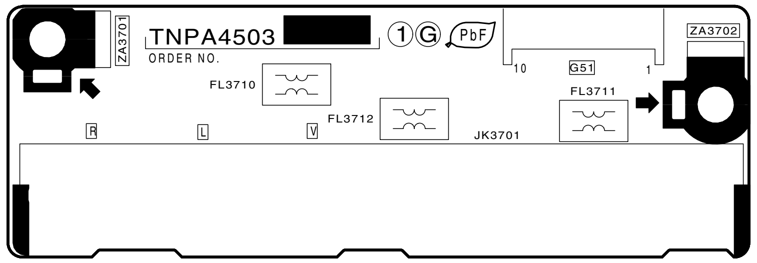
TH-50PZ85U
P(MAIN)-BOARD ETX2MM704MGL

12.3. G, GH and GS-Board

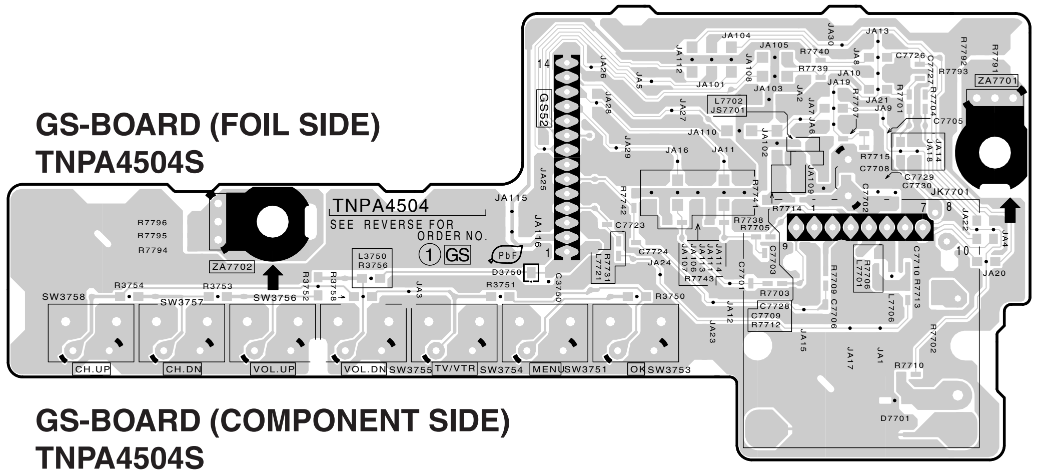
G-BOARD (FOIL SIDE)
TNPA4503S


ZA3702
TNPA4503
SEE REVERSE FOR ORDER NO.
1 G PbF
ZA3701
G51
FL3710
FL3711
FL3712
JK3701
V
L
R

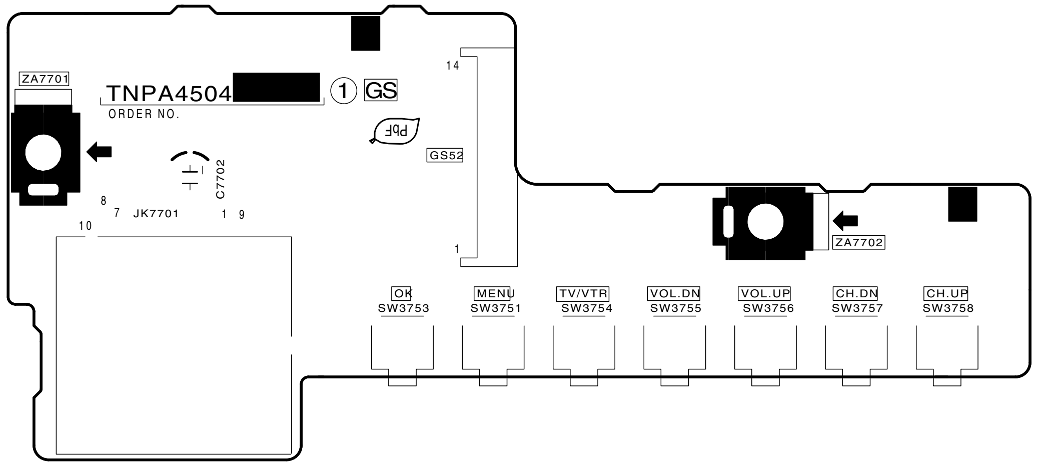
G-BOARD (COMPONENT SIDE)
TNPA4503S

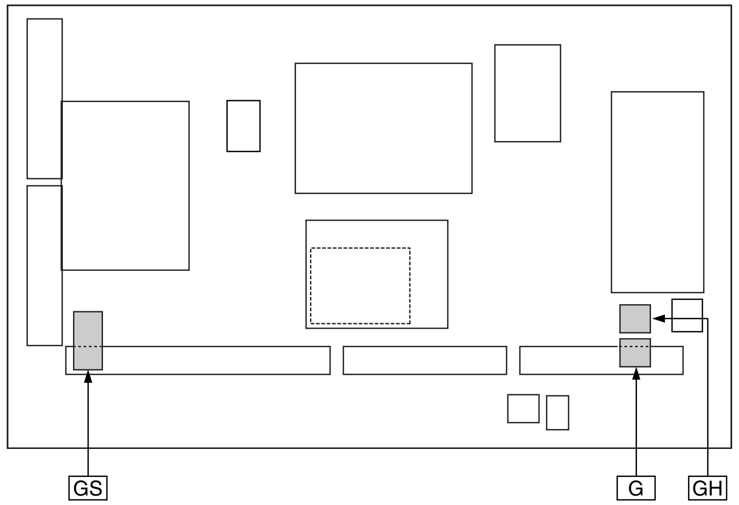

ZA3701
TNPA4503
1 G PbF
ORDER NO.
ZA3702
G51
FL3710
FL3711
FL3712
JK3701
R
L
V

GS-BOARD (FOIL SIDE)
TNPA4504S

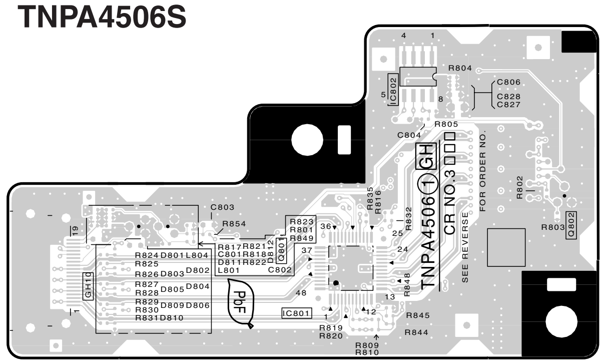

GS52
TNPA4504
SEE REVERSE FOR ORDER NO.
1 GS PbF
ZA7701
ZA7702
JK7701
SW3758
SW3757
SW3756
SW3755
SW3754
SW3751
SW3753
CH.UP
CH.DN
VOL.UP
VOL.DN
TV/VTR
MENU
OK

GS-BOARD (COMPONENT SIDE)
TNPA4504S

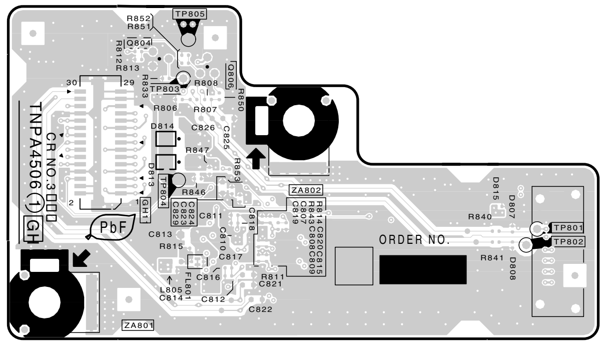

ZA7701
TNPA4504
1 GS
ORDER NO.
PbF
GS52
C7702
JK7701
ZA7702
OK SW3753
MENU SW3751
TV/VTR SW3754
VOL.DN SW3755
VOL.UP SW3756
CH.DN SW3757
CH.UP SW3758



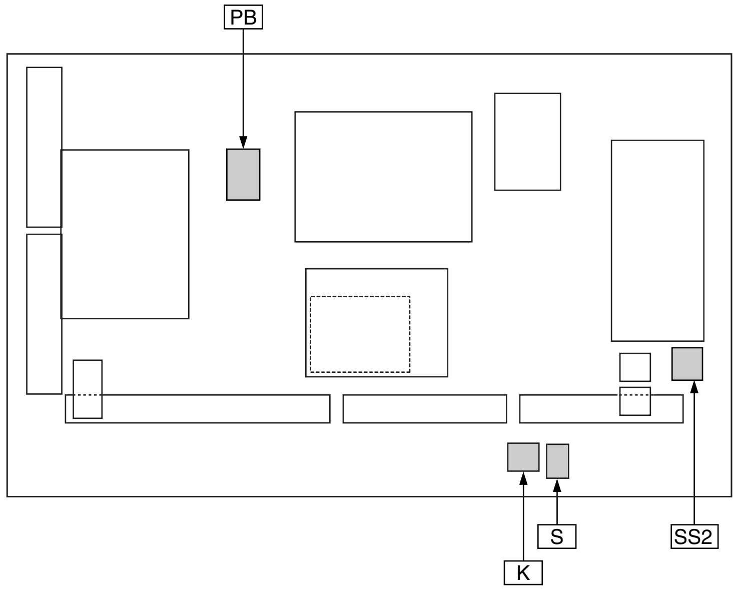
GH-BOARD (FOIL SIDE)
TNPA4506S


TNPA4506 1 GH
CR NO.3
SEE REVERSE FOR ORDER NO.
IC801
PbF

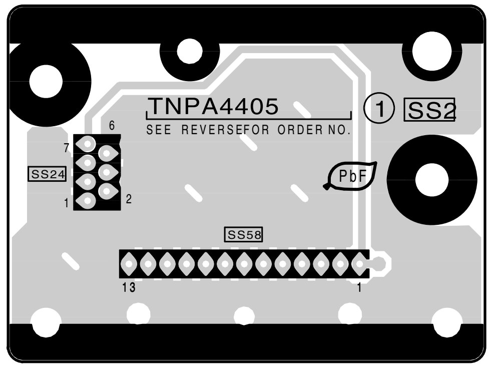
GH-BOARD (COMPONENT SIDE)
TNPA4506S


TNPA4506 1 GH
CR NO.3
ORDER NO.
PbF
TP801
TP802
TP803
TP805
ZA801
ZA802

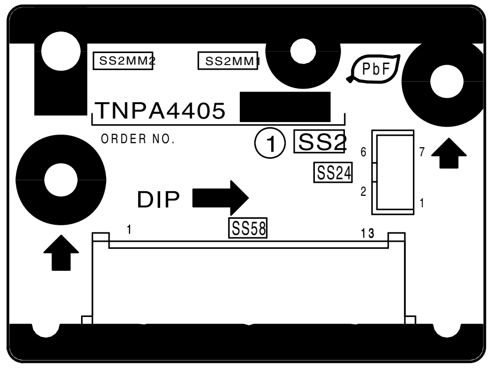
12.4. K, PB, S and SS2-Board



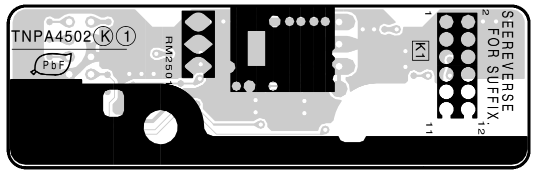
SS2-BOARD (FOIL SIDE)
TNPA4405S


TNPA4405
SEE REVERSEFOR ORDER NO.
① SS2
PbF
SS24
SS58
7
6
1
2
13
1

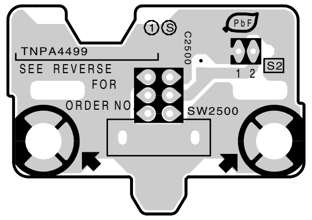
SS2-BOARD (COMPONENT SIDE)
TNPA4405S


SS2MM2
SS2MM1
PbF
TNPA4405
ORDER NO.
① SS2
SS24
DIP
SS58
1
13
6
7
2
1

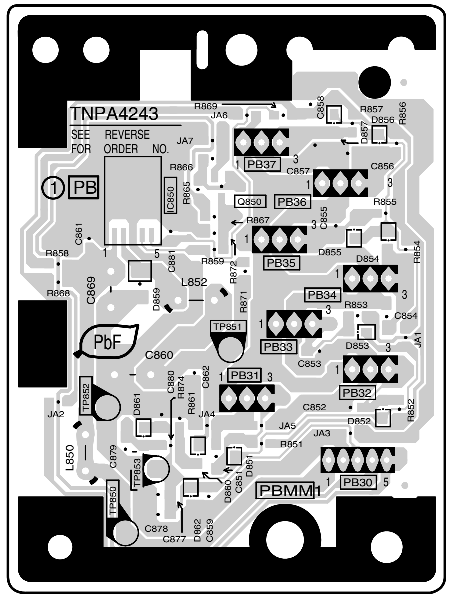
K-BOARD (FOIL SIDE)
TNPA4502S


TNPA4502 Ⓚ ①
PbF
RM2501
K1
SEE REVERSE FOR SUFFIX.

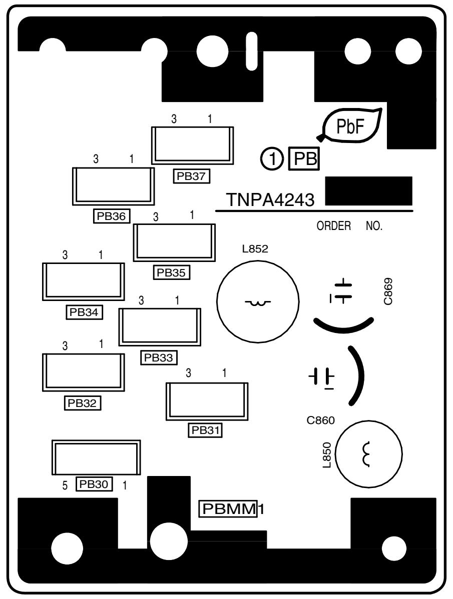
S-BOARD (FOIL SIDE)
TNPA4499S


TNPA4499
SEE REVERSE FOR ORDER NO.
①Ⓢ
C2500
PbF
S2
1 2
SW2500

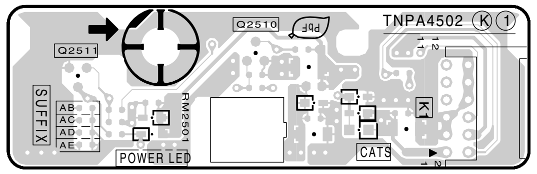
PB-BOARD (FOIL SIDE)
TNPA4243AHS


TNPA4243
SEE REVERSE FOR ORDER NO.
① PB
PbF
PB37
PB36
PB35
PB34
PB33
PB32
PB31
PB30
PBMM1
Q850
TP851
TP852
TP850
L852
L850
C869
C860
JA2
JA3
JA4
JA5
JA6
JA7
R869
R857
R866
R867
R865
R858
R868
R859
R872
R871
R853
R855
R854
R852
R851
D856
D855
D854
D853
D852
C857
C856
C855
C854
C853
C852
C861
C881
C878
C877
C879

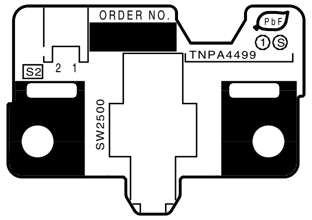
PB-BOARD (COMPONENT SIDE)
TNPA4243AHS


PbF
① PB
TNPA4243
ORDER NO.
PB37
PB36
PB35
PB34
PB33
PB32
PB31
PB30
PBMM1
L852
L850
C869
C860
3
1
5

K-BOARD (COMPONENT SIDE)
TNPA4502S


Q2510
Q2511
PbF
TNPA4502 Ⓚ ①
SUFFIX
AB
AC
AD
AE
RM2501
K1
POWER LED
CATS

S-BOARD (COMPONENT SIDE)
TNPA4499S

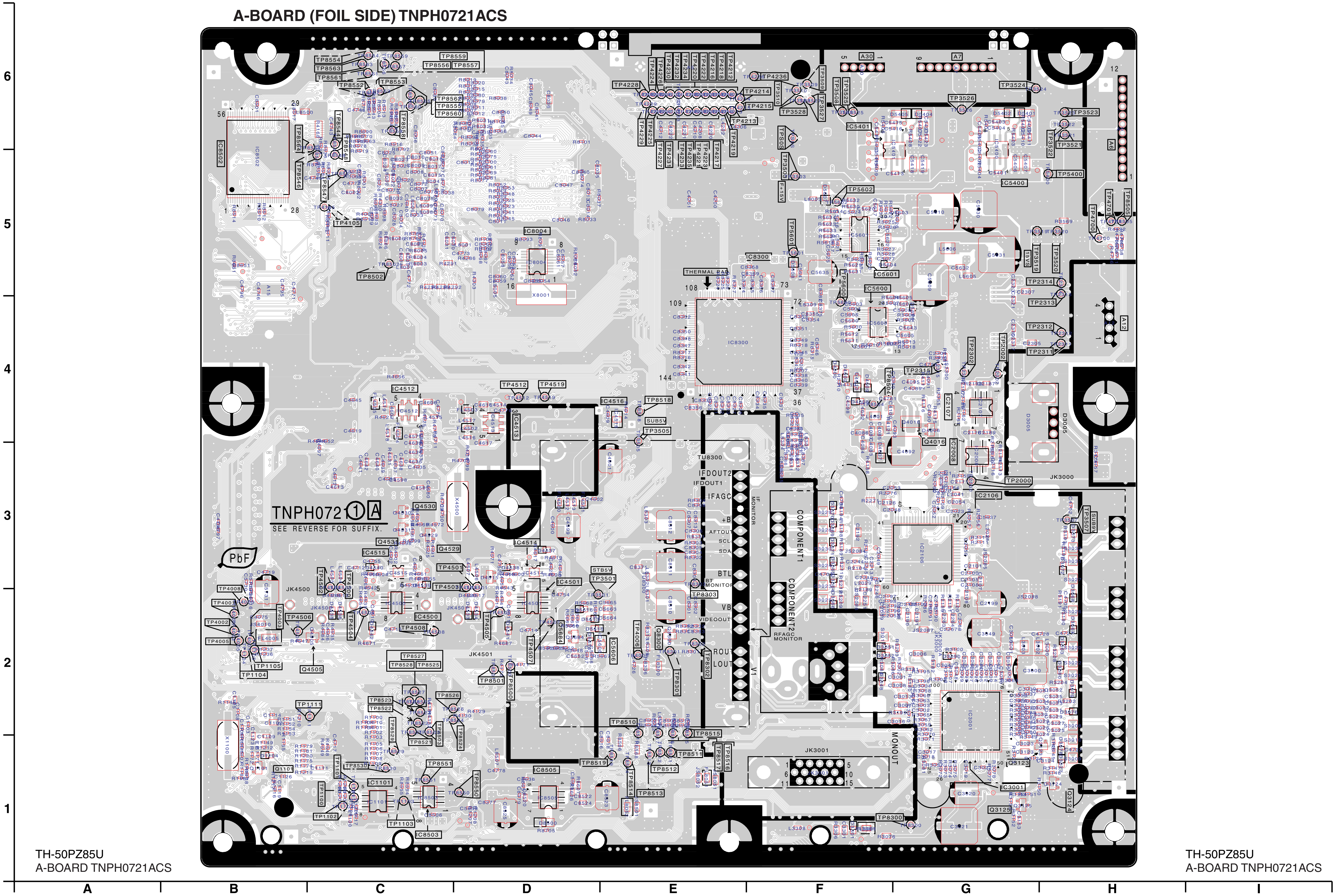

ORDER NO.
PbF
TNPA4499
①Ⓢ
S2
2 1
SW2500

TH-50PZ85U
K-BOARD TNPA4502S
PB-BOARD TNPA4243AHS
S-BOARD TNPA4499S
SS2-BOARD TNPA4405S

TH-50PZ85U
K-BOARD TNPA4502S
PB-BOARD TNPA4243AHS
S-BOARD TNPA4499S
SS2-BOARD TNPA4405S

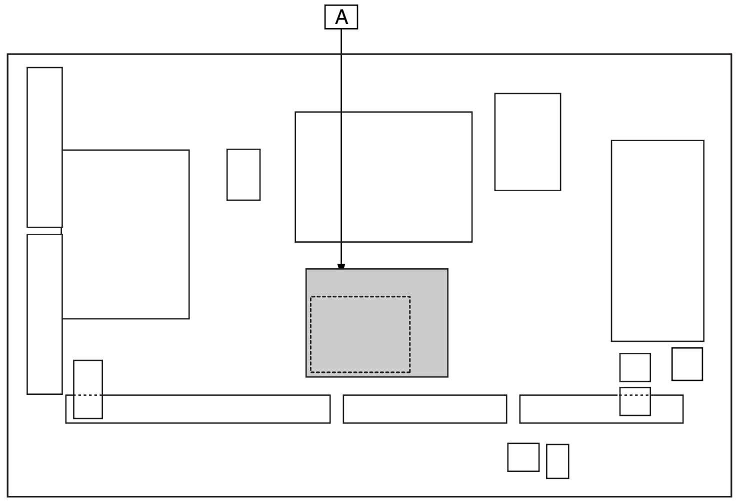
12.5. A-Board

A-BOARD (FOIL SIDE) TNPH0721ACS


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPH0721①A
SEE REVERSE FOR SUFFIX.
PbF
IC8300
IC8004
IC4512
IC4513
IC4514
IC4515
IC4500
IC4501
IC4516
IC2106
IC3001
IC5400
IC5401
IC5600
IC5601
IC8503
IC8505
IC1101
JK3000
JK3001
JK4500
JK4501
TU8300
THERMAL PAD
COMPONENT1
COMPONENT2
MONOUT
IF MONITOR
RFAGC MONITOR
IFDOUT2
IFDOUT1
IFAGC
+B
AFTOUT
SCL
SDA
BTL
BT MONITOR
VB
VIDEOOUT
ROUT
LOUT
V1
A30
A7
A6
A12
A15
X8001
X1100
X4500

TH-50PZ85U
A-BOARD TNPH0721ACS

TH-50PZ85U
A-BOARD TNPH0721ACS



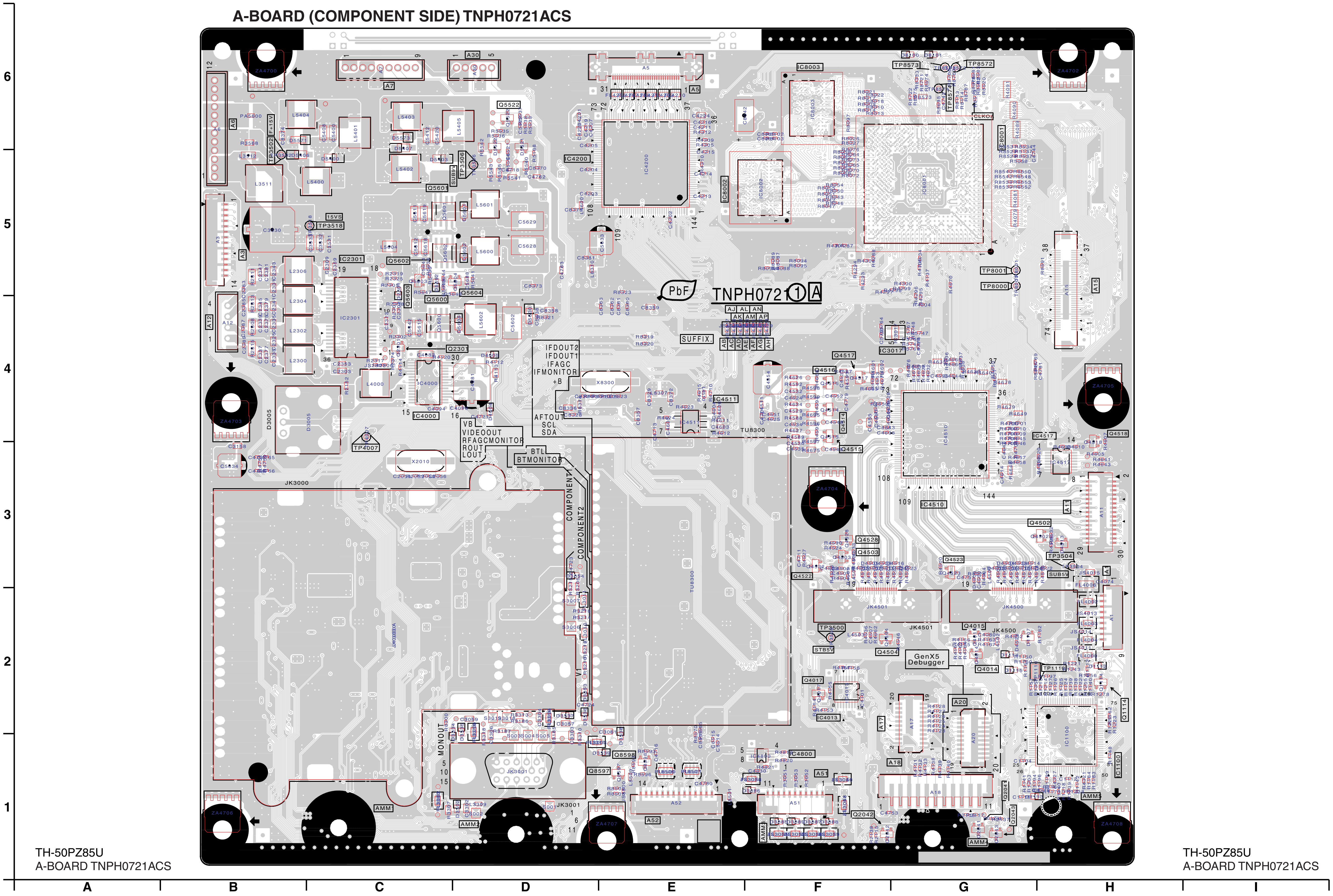
Parts Location

A-BOARD (FOIL SIDE)											
IC		TRANSISTOR		TEST POINT							
IC1101	C-1	Q1101	B-1	TP1100	C-1	TP4216	E-6	TP8503	C-1		
IC2008	G-3	Q3123	G-1	TP1101	C-1	TP4217	E-6	TP8504	F-4		
IC2106	G-3	Q3124	H-1	TP1102	C-1	TP4218	E-6	TP8505	H-5		
IC2107	G-4	Q3125	G-1	TP1103	C-1	TP4219	E-6	TP8510	E-2		
IC3001	G-1	Q4016	G-4	TP1104	B-2	TP4220	E-6	TP8511	E-1		
IC4500	C-2	Q4505	C-2	TP1105	B-2	TP4221	E-6	TP8512	E-1		
IC4501	D-3	Q4529	C-3	TP1111	B-2	TP4222	E-6	TP8513	E-1		
IC4512	C-4	Q4530	C-3	TP2000	G-3	TP4223	E-6	TP8514	E-1		
IC4513	D-4	Q4531	C-3	TP2002	G-4	TP4224	E-6	TP8515	E-1		
IC4514	D-3	Q5684	D-2	TP2302	G-4	TP4225	E-6	TP8516	E-1		
IC4515	C-3	Q8300	E-2	TP2311	H-4	TP4226	E-6	TP8517	E-1		
IC4516	E-4			TP2312	H-4	TP4227	E-6	TP8518	E-4		
IC5400	G-5			TP2313	H-4	TP4228	E-6	TP8519	E-1		
IC5401	F-6			TP2314	H-5	TP4229	E-6	TP8521	C-1		
IC5600	F-4			TP2315	G-4	TP4230	E-6	TP8522	C-2		
IC5601	F-5			TP3501	E-3	TP4231	E-6	TP8523	C-2		
IC5606	E-2			TP3503	F-5	TP4232	E-6	TP8524	D-1		
IC8004	D-5			TP3505	E-4	TP4233	E-6	TP8525	C-2		
IC8300	F-5			TP3507	H-3	TP4234	E-6	TP8526	C-2		
IC8502	B-5			TP3508	F-6	TP4235	E-6	TP8527	C-2		
IC8503	C-1			TP3509	F-6	TP4236	F-6	TP8528	C-2		
IC8505	D-1			TP3510	F-6	TP4500	C-3	TP8529	C-1		
				TP3519	G-5	TP4501	D-3	TP8530	C-1		
				TP3520	H-5	TP4502	C-3	TP8544	C-6		
				TP3521	H-6	TP4503	C-3	TP8546	B-5		
				TP3522	H-6	TP4504	C-2	TP8547	C-5		
				TP3523	H-6	TP4505	D-2	TP8548	C-5		
				TP3524	G-6	TP4506	B-2	TP8550	D-1		
				TP3525	F-6	TP4507	D-2	TP8551	C-1		
				TP3526	G-6	TP4508	C-2	TP8552	C-6		
				TP3527	F-6	TP4512	D-4	TP8553	C-6		
				TP3528	F-6	TP4519	D-4	TP8554	C-6		
				TP4001	B-2	TP4700	H-5	TP8555	C-6		
				TP4002	B-2	TP4701	H-5	TP8556	C-6		
				TP4003	B-2	TP5400	H-5	TP8557	D-6		
				TP4005	B-2	TP5600	F-5	TP8558	C-6		
				TP4006	E-2	TP5601	F-5	TP8559	C-6		
				TP4008	B-2	TP5602	F-5	TP8560	C-6		
				TP4105	C-5	TP8300	G-1	TP8561	C-6		
				TP4212	E-6	TP8301	E-2	TP8562	C-6		
				TP4213	E-6	TP8302	E-2	TP8563	C-6		
				TP4214	E-6	TP8303	E-2	TP8564	B-6		
				TP4215	E-6	TP8500	D-2				
						TP8501	D-2	TPSOS	F-6		
						TP8502	C-5				

Parts Location

A-BOARD (COMPONENT SIDE)									
IC		TRANSISTOR						TP	
IC1100	H-1	Q1114	H-2	Q5522	D-6			TP1110	H-2
IC2301	C-5	Q2041	G-1	Q5600	C-5			TP3500	F-2
IC3017	G-4	Q2042	F-1	Q5601	C-5			TP3502	B-5
IC4000	C-4	Q2043	G-1	Q5602	C-5			TP3504	H-3
IC4013	F-2	Q2301	C-4	Q5603	C-4			TP3506	D-5
IC4200	E-5	Q4014	G-2	Q5604	D-5			TP3518	C-5
IC4510	G-3	Q4015	G-2	Q8597	E-1			TP4007	C-3
IC4511	E-4	Q4017	F-2	Q8598	E-1			TP8000	G-5
IC4517	H-3	Q4502	H-3					TP8001	G-5
IC4800	F-1	Q4503	F-3					TP8572	G-6
IC8001	G-5	Q4504	F-2					TP8573	G-6
IC8002	E-5	Q4514	F-4					TP8574	G-6
IC8003	F-6	Q4515	F-3						
		Q4516	F-4						
		Q4517	F-4						
		Q4518	H-4						
		Q4522	F-3						
		Q4523	G-3						
		Q4528	F-3						

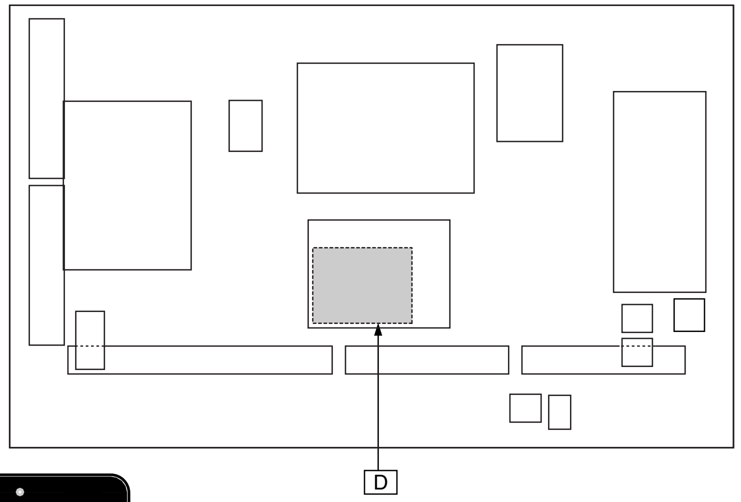
A-BOARD (COMPONENT SIDE) TNPH0721ACS


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPH0721①A
PbF
SUFFIX
IC4200
IC8001
IC8002
IC8003
IC2301
IC4000
IC4510
IC4511
IC4517
IC3017
IC4013
IC4800
IC1100
JK3000
JK3001
JK4500
JK4501
TU8300
X2010
X8300
IFDOUT2
IFDOUT1
IFAGC
IFMONITOR
+B
AFTOUT
SCL
SDA
VB
VIDEOOUT
RFAGCMONITOR
ROUT
LOUT
BTL
BTMONITOR
COMPONENT1
COMPONENT2
MONOUT
GenX5 Debugger
15VS
TP3518
TP4007
TP3500
TP3504
TP8001
TP8000
TP8573
TP8572
TP1119
STB5V
SUB5V
CLKO
AMM
AMM2
AMM3
AMM4
A5
A7
A12
A15
A17
A18
A20
A30
A51
A52
ZA4700
ZA4701
ZA4702
ZA4703
ZA4704
ZA4705
ZA4706
ZA4707
ZA4708

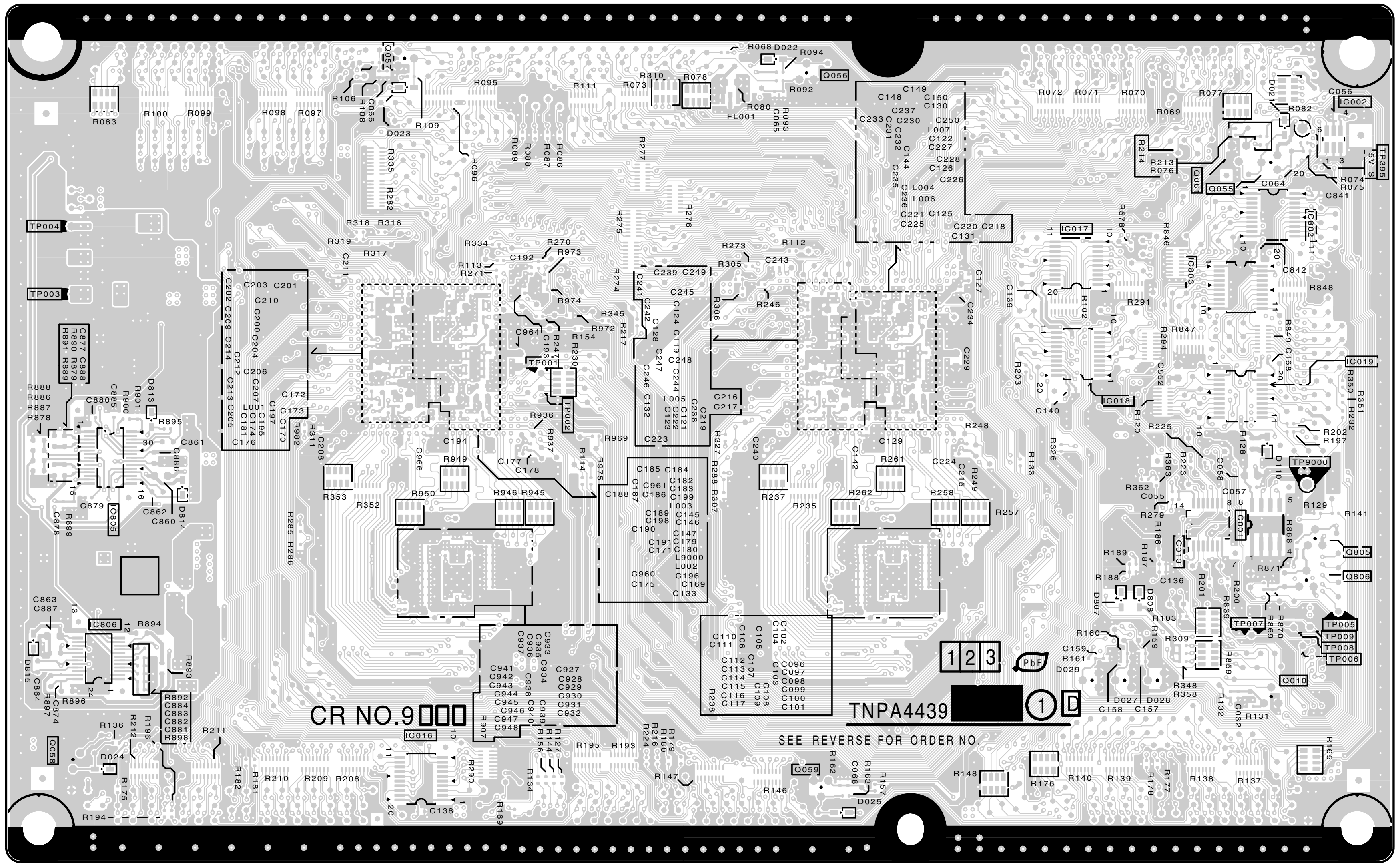
TH-50PZ85U
A-BOARD TNPH0721ACS

TH-50PZ85U
A-BOARD TNPH0721ACS

12.6. D-Board



D-BOARD (FOIL SIDE)
TNPA4439AJS


6
5
4
3
2
1
CR NO.9
TNPA4439
SEE REVERSE FOR ORDER NO.
1 2 3
PbF
①
D
A
B
C
D
E
F
G
H
I

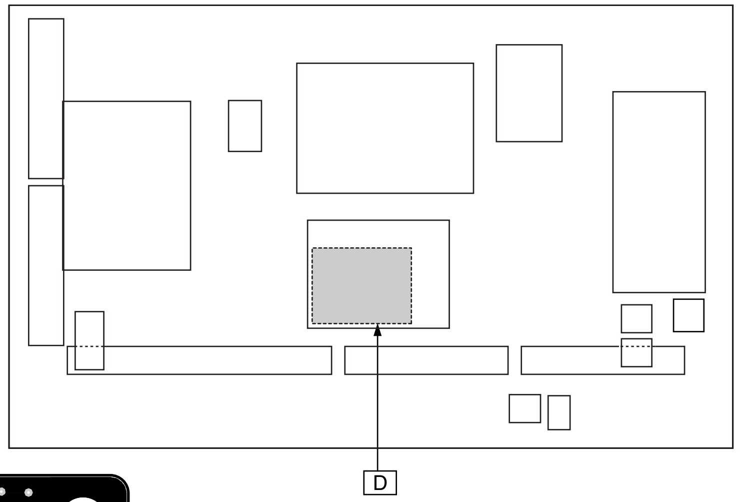
Parts Location

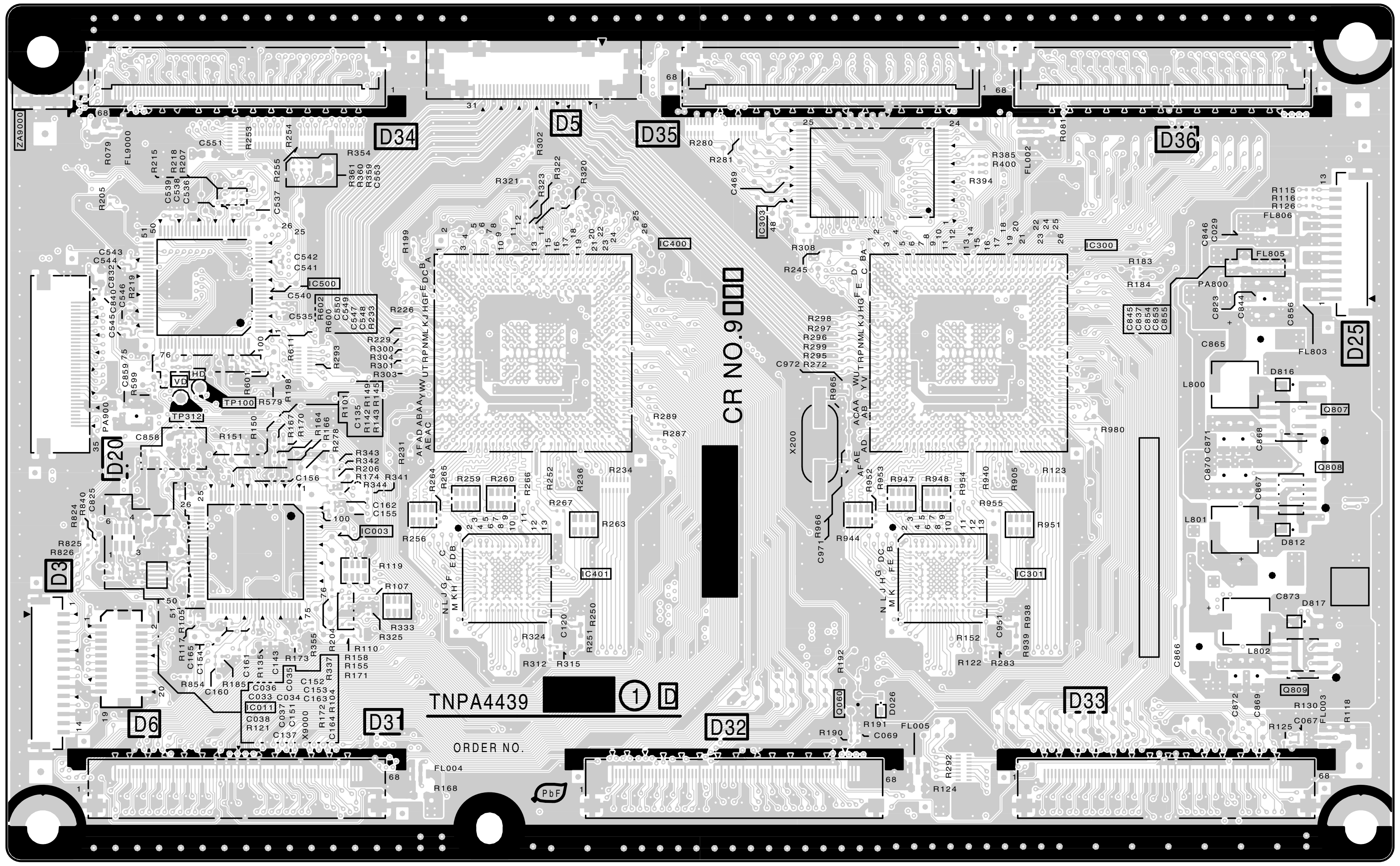
D-BOARD (FOIL SIDE)			
IC		**TEST POINT**	
IC9001	F-2	TP9000	F-3
IC9002	F-4	TP9001	C-3
IC9013	F-2	TP9002	C-3
IC9016	C-2	TP9003	A-3
IC9017	E-3	TP9004	A-4
IC9018	E-3	TP9005	F-2
IC9019	F-3	TP9006	F-2
IC9802	F-4	TP9007	F-2
IC9803	F-3	TP9008	F-2
IC9805	A-2	TP9009	F-2
IC9806	A-2	TP9395	G-4
TRANSISTOR			
Q9010	F-2		
Q9055	F-4		
Q9056	D-4		
Q9057	B-4		
Q9058	A-1		
Q9059	D-1		
Q9061	F-4		
Q9805	F-2		
Q9806	F-2		

TH-50PZ85U
D-BOARD TNPA4439AJS

TH-50PZ85U
D-BOARD TNPA4439AJS

D-BOARD (COMPONENT SIDE)
TNPA4439AJS




6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
D34
D5
D35
D36
D25
D20
D3
D6
D31
D32
D33
IC400
IC300
IC500
IC401
IC301
IC003
IC011
Q807
Q808
Q809
TP100
TP312
CR NO.9
TNPA4439
ORDER NO.
PbF
ZA9000
X200
X9000

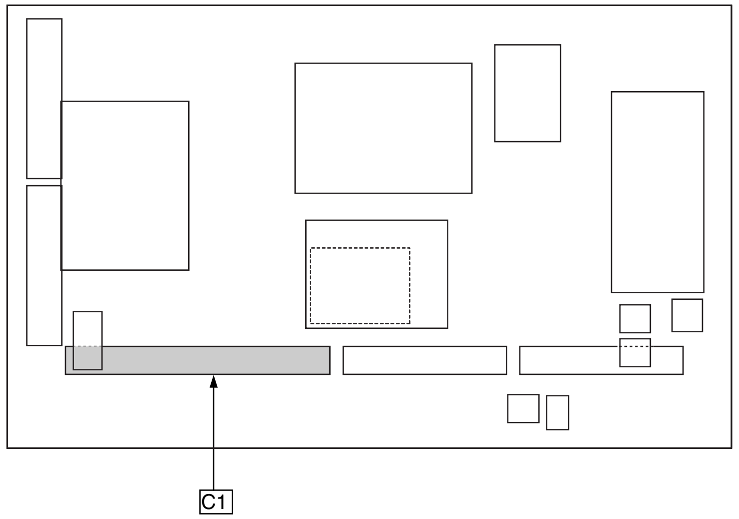
Parts Location

D-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC9003	B-2	Q9060	D-2
IC9011	B-2	Q9807	F-3
IC9300	E-3	Q9808	F-3
IC9301	E-2	Q9809	F-2
IC9303	D-4	**TEST POINT**	
IC9400	C-3	TP9100	B-3
IC9401	C-2	TP9312	A-3
IC9500	B-3		

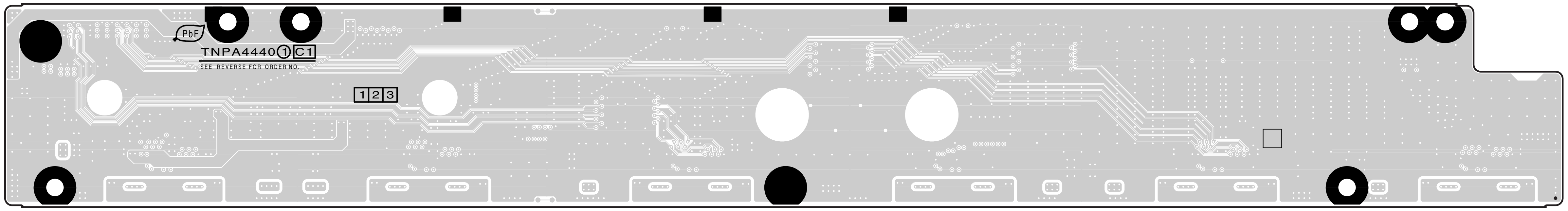
12.7. C1-Board

Parts Location

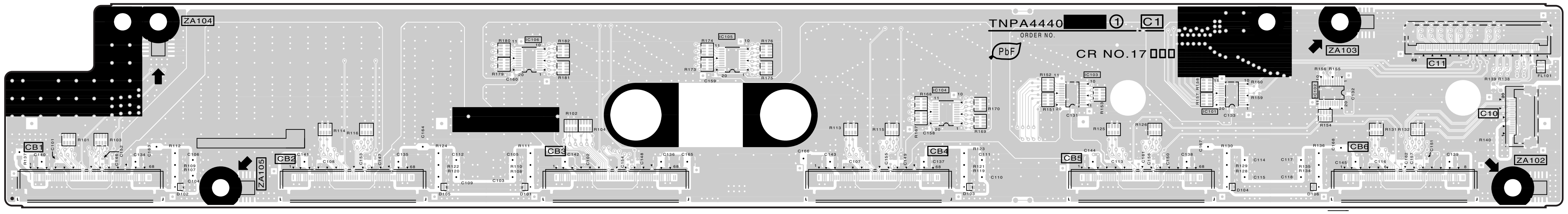
C1-BOARD	
IC	
IC17101	G-2
IC17102	H-2
IC17103	F-2
IC17104	F-2
IC17105	E-2
IC17106	C-2



C1-BOARD (FOIL SIDE)
TXNC11RJTU


PbF
TNPA4440①C1
SEE REVERSE FOR ORDER NO.
1 2 3

C1-BOARD (COMPONENT SIDE)
TXNC11RJTU


ZA104
TNPA4440 ① C1
ORDER NO.
PbF
CR NO.17
ZA103
C11
C10
CB1
CB2
ZA105
CB3
CB4
CB5
CB6
ZA102

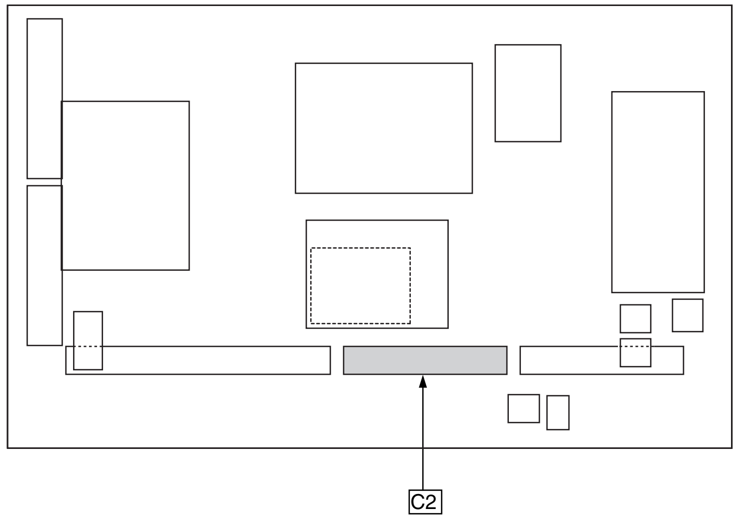
6
5
4
3
2
1

A B C D E F G H I

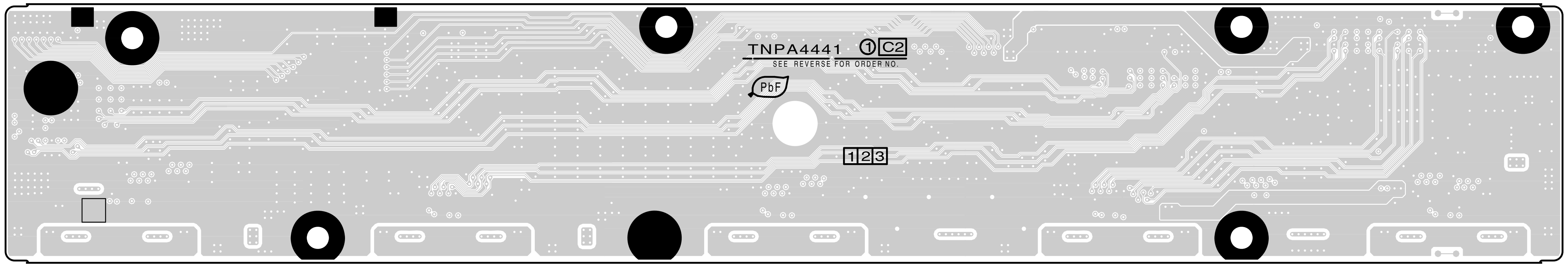
12.8. C2-Board

Parts Location

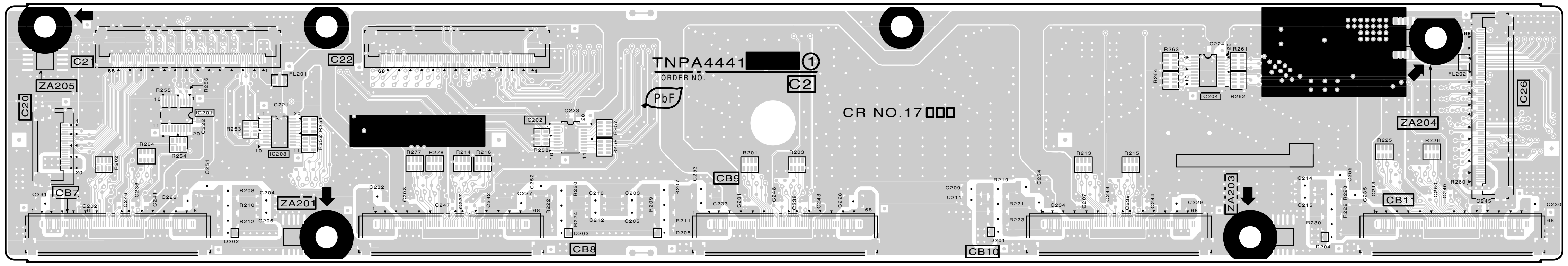
C2-BOARD	
IC	
IC17201	B-2
IC17202	D-2
IC17203	B-2
IC17204	G-2



C2-BOARD (FOIL SIDE)
TXNC21RJTU


TNPA4441 ① C2
SEE REVERSE FOR ORDER NO.
PbF
1 2 3

C2-BOARD (COMPONENT SIDE)
TXNC21RJTU


C21
C22
ZA205
C20
CB7
ZA201
IC201
IC202
IC203
IC204
TNPA4441 ①
ORDER NO.
C2
PbF
CR NO.17
CB8
CB9
CB10
ZA203
ZA204
CB1
C26
FL201
FL202
R201
R203
R213
R215
R225
R226
R263
R261
R262
R264
R277
R278
R214
R216
R204
R254
R255
R256
R253
C201
C202
C203
C204
C205
C206
C208
C209
C210
C211
C212
C214
C215
C223
C224
C226
C227
C228
C229
C230
C231
C232
C245
D201
D202
D203
D204
D205
R208
R210
R212
R219
R221
R223
R230
R211
R269

6
5
4
3
2
1

A B C D E F G H I

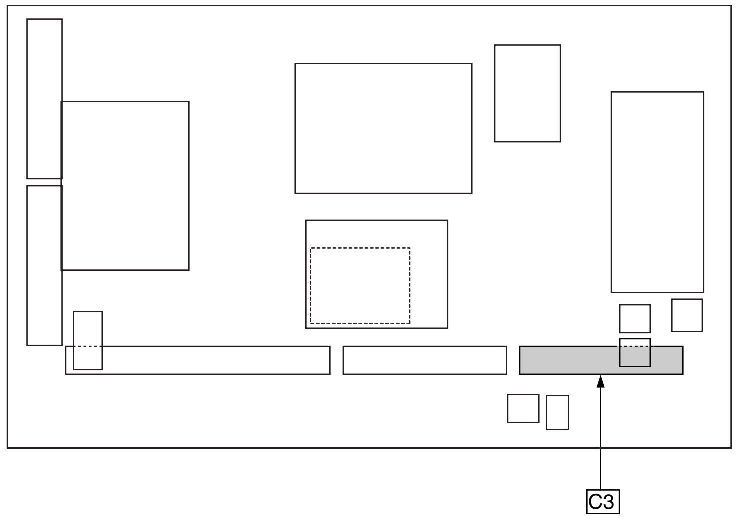
12.9. C3-Board

6

5

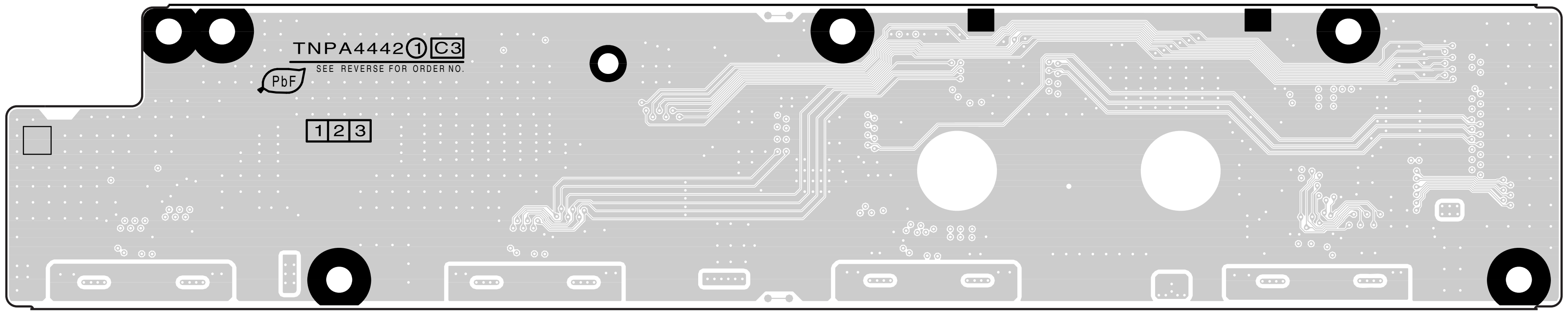
Parts Location

C3-BOARD	
IC	
IC17301	B-2
IC17302	E-2
IC17303	D-2
IC17304	C-2



4

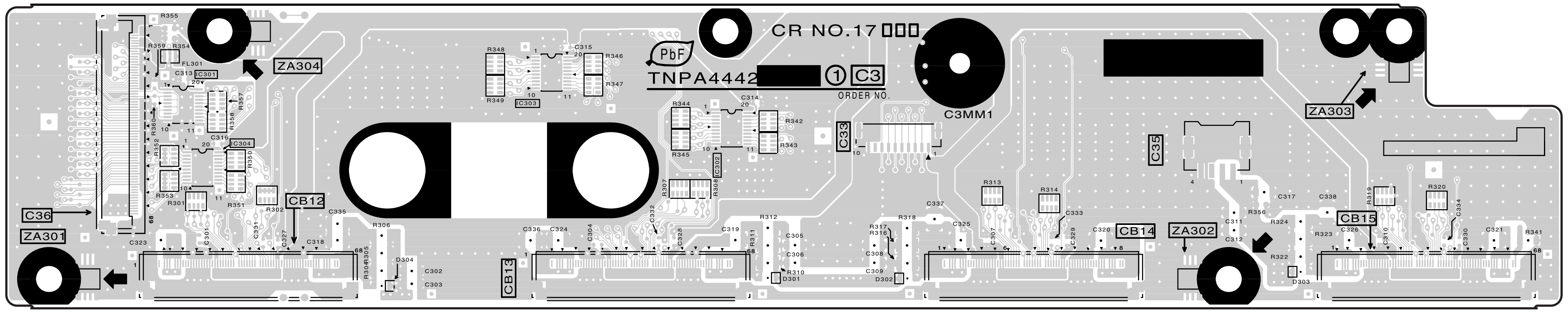
C3-BOARD (FOIL SIDE)
TXNC31RJTU


TNPA4442 ① C3
SEE REVERSE FOR ORDER NO.
PbF
1 2 3

3

2

C3-BOARD (COMPONENT SIDE)
TXNC31RJTU


CR NO.17
PbF
TNPA4442 ① C3
ORDER NO.
C3MM1
ZA301
ZA302
ZA303
ZA304
C36
C33
C35
CB12
CB13
CB14
CB15
FL301
C301
C303
C304
C313
C315
C316
C317
C318
C319
C320
C321
C323
C324
C325
C326
C327
C328
C330
C331
C332
C333
C334
C335
C336
C337
C338
C302
C305
C306
C308
C309
C311
C312
R301
R302
R306
R310
R311
R312
R313
R314
R316
R317
R318
R319
R320
R322
R323
R324
R341
R342
R343
R344
R345
R346
R347
R348
R349
R351
R353
R355
R356
R357
R358
R359
D301
D302
D303

1

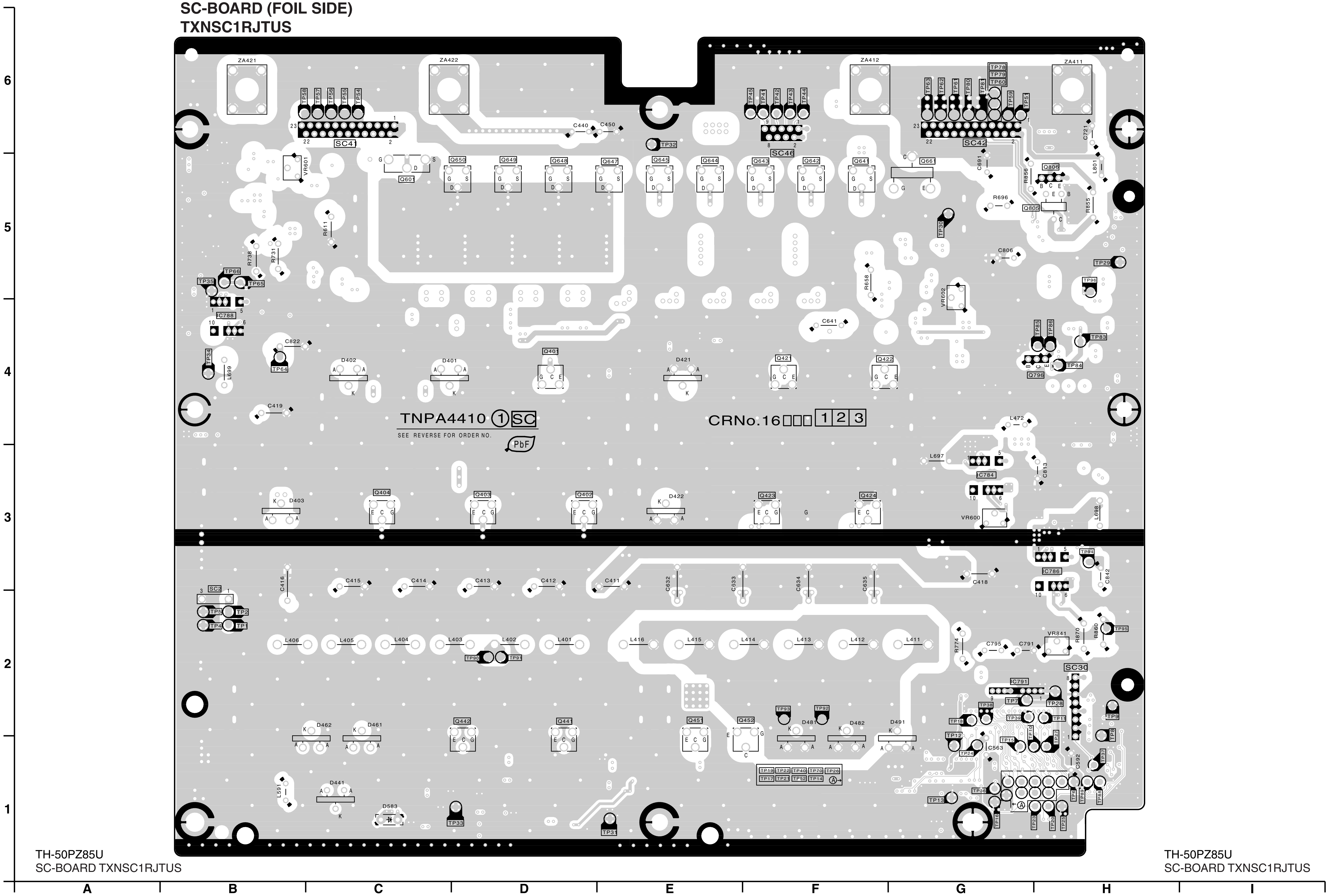
TH-50PZ85U
C3-BOARD TXNC31RJTU

TH-50PZ85U
C3-BOARD TXNC31RJTU

A B C D E F G H I

12.10. SC-Board

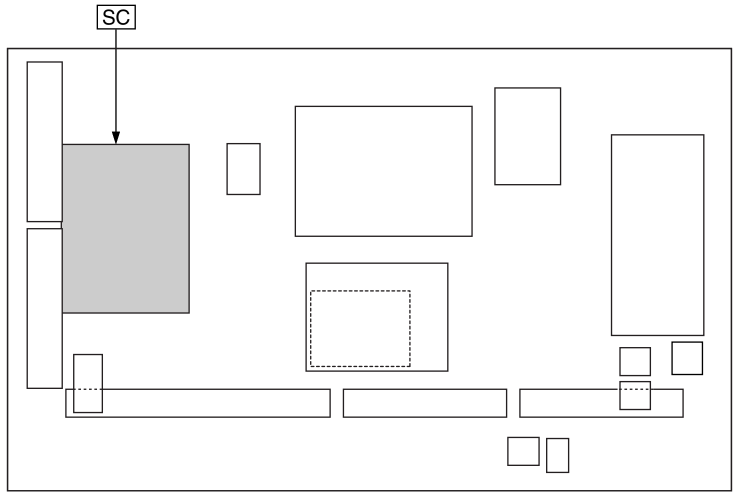
SC-BOARD (FOIL SIDE)
TXNSC1RJTUS



ZA421
ZA422
ZA412
ZA411
SC41
SC46
SC42
SC30
SC2
Q601
Q650
Q649
Q648
Q647
Q645
Q644
Q643
Q642
Q641
Q661
VR601
VR602
VR600
VR841
IC788
IC784
IC786
IC791
TNPA4410 ① SC
SEE REVERSE FOR ORDER NO.
PbF
CRNo.16□□□ 1 2 3
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

TH-50PZ85U
SC-BOARD TXNSC1RJTUS

TH-50PZ85U
SC-BOARD TXNSC1RJTUS



Parts Location

SC-BOARD (FOIL SIDE)

IC	
IC16784	G-3
IC16786	H-3
IC16788	B-4
IC16791	G-2

TRANSISTOR	
Q16401	D-4
Q16402	D-3
Q16403	D-3
Q16404	C-3
Q16421	F-4
Q16422	F-4
Q16423	F-3
Q16424	F-3
Q16441	D-2
Q16442	D-2
Q16451	E-2
Q16452	F-2
Q16601	C-5
Q16641	F-5
Q16642	F-5
Q16643	F-5
Q16644	E-5
Q16645	E-5
Q16647	E-5
Q16648	D-5
Q16649	D-5
Q16650	D-5
Q16661	G-5
Q16796	H-4
Q16805	H-5
Q16806	H-5

VOLUME	
VR16600	G-3
VR16601	B-5
VR16602	G-5
VR16841	H-2

TEST POINT	
TP1	B-2
TP2	B-2
TP4	B-2
TP5	B-2
TP6	H-1
TP7	G-2
TP8	H-1
TP9	H-2
TP10	G-1
TP11	H-2
TP12	G-1
TP13	G-1
TP14	F-1
TP15	G-1
TP16	G-1
TP17	F-1
TP18	G-2
TP19	F-1
TP20	H-1
TP21	F-1
TP22	F-1
TP23	H-1
TP24	G-1
TP25	H-1
TP26	F-1
TP27	H-1
TP28	H-2
TP29	H-5
TP30	G-5
TP31	E-1
TP32	E-6
TP33	D-1
TP34	B-4
TP35	B-5
TP36	G-1
TP37	H-1
TP38	G-2
TP39	G-2
TP40	F-1
TP41	F-6
TP42	F-6
TP43	F-6
TP44	F-6
TP45	F-6
TP51	G-6
TP52	F-1
TP54	C-6
TP55	C-6
TP56	C-6
TP57	C-6
TP58	C-6
TP59	G-6
TP60	G-6
TP61	G-6
TP62	G-6
TP63	G-6
TP64	B-4
TP65	B-5
TP66	B-5
TP70	F-1
TP78	G-6
TP79	G-6
TP80	G-6
TP81	G-6
TP83	H-4
TP84	H-4
TP85	H-4
TP86	H-4
TP88	H-1
TP89	H-1
TP90	D-2
TP91	D-2
TP92	F-2
TP93	F-2
TP94	H-3
TP95	H-2
TP96	H-5

Parts Location

SC-BOARD (COMPONENT SIDE)

IC	
IC16471	B-5
IC16472	B-5
IC16473	A-1
IC16474	B-2
IC16501	E-4
IC16521	E-1
IC16561	C-1
IC16562	C-1
IC16563	B-1
IC16564	B-5
IC16581	F-1
IC16724	B-6
IC16725	B-6
IC16752	G-5
IC16772	C-4
IC16784	C-3
IC16786	B-3
IC16787	C-2
IC16788	H-4
IC16789	H-5
IC16791	B-2
IC16792	B-5
IC16801	B-4

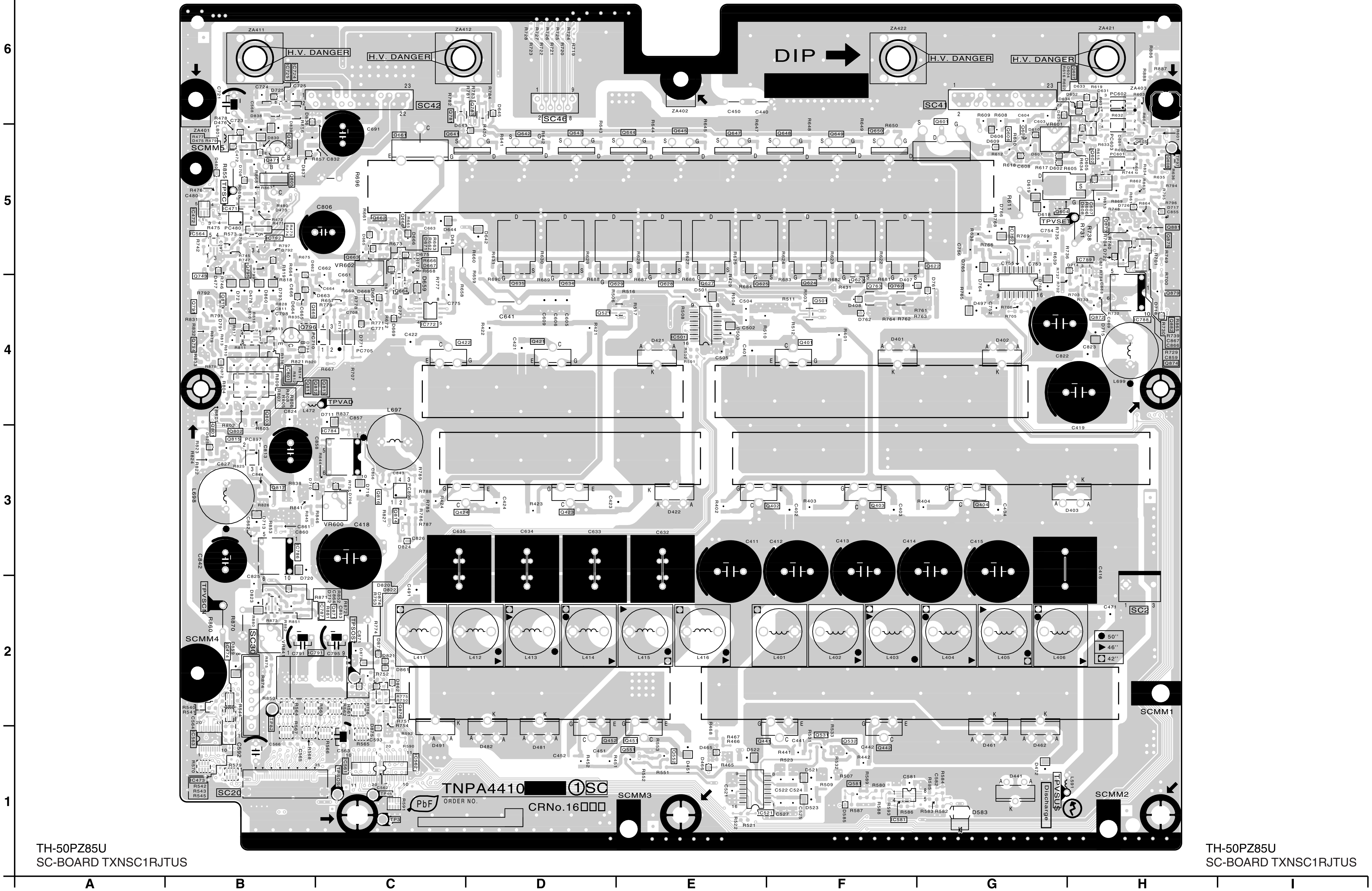
PHOTO COUPLER	
PC16480	B-5
PC16601	H-5
PC16602	H-6
PC16603	H-5
PC16705	C-4
PC16710	C-4
PC16896	C-3
PC16897	C-3

TRANSISTOR	
Q16401	F-4
Q16402	F-3
Q16403	F-3
Q16404	G-3
Q16421	D-4
Q16422	C-4
Q16423	D-3
Q16424	C-3
Q16441	E-1
Q16442	F-1
Q16451	E-1
Q16452	D-1
Q16471	B-5
Q16501	F-4
Q16521	D-4
Q16531	F-1
Q16532	F-1
Q16551	E-1
Q16552	E-1
Q16581	F-1
Q16601	G-5
Q16602	H-5
Q16603	G-5
Q16604	G-5
Q16605	H-5
Q16606	G-5
Q16607	H-6
Q16608	H-5
Q16622	G-4
Q16623	F-4
Q16624	F-4
Q16625	E-4
Q16627	E-4
Q16628	E-4
Q16629	E-4
Q16634	D-4
Q16635	D-4
Q16641	C-5
Q16642	D-5
Q16643	D-5
Q16644	E-5
Q16645	E-5
Q16647	E-5
Q16648	F-5
Q16649	F-5
Q16650	F-5
Q16661	C-5
Q16662	C-5
Q16663	C-5
Q16664	C-4
Q16665	B-4
Q16666	C-5
Q16743	B-4
Q16762	F-4
Q16763	F-4
Q16781	C-6
Q16783	D-6
Q16791	B-4
Q16794	B-4
Q16795	B-5
Q16796	B-4
Q16801	B-3
Q16802	B-3
Q16803	C-3
Q16805	B-5
Q16806	B-5
Q16810	B-4
Q16811	B-4
Q16812	B-4
Q16813	C-4
Q16814	C-3
Q16815	B-3
Q16816	C-3
Q16817	B-3
Q16871	C-2
Q16872	H-4
Q16873	H-5
Q16874	H-4
Q16875	H-5
Q16876	C-2
Q16879	H-4
Q16881	H-5
Q16882	H-4

TEST POINT	
TP3	C-1
TP46	C-1
TP82	B-2
TP97	H-5
TPSC1	B-5
TPSOS6	C-1
TPSOS7	C-2
TPVDA	C-4
TPVSCN	B-2
TPVSET	G-5
TPVSUS	G-1

VOLUME	
VR16600	C-3
VR16601	G-5
VR16602	C-5
VR16841	B-2

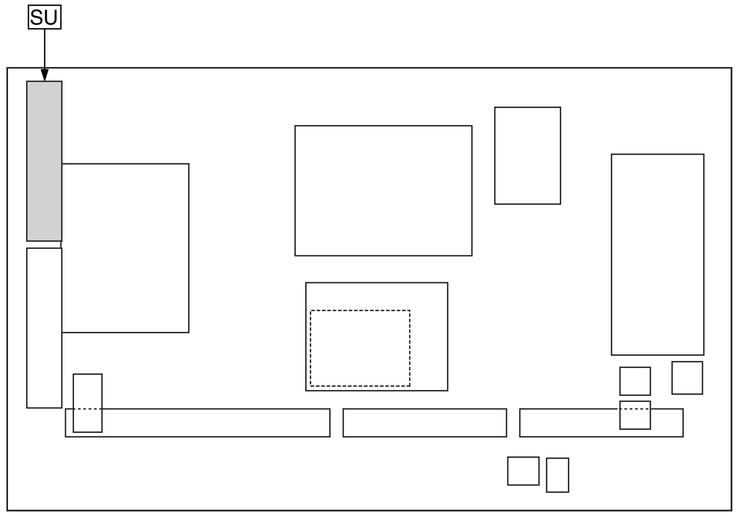
SC-BOARD (COMPONENT SIDE)
TXNSC1RJTUS


H.V. DANGER
DIP
ZA411
ZA412
ZA422
ZA421
ZA402
ZA403
ZA401
SC42
SC46
SC41
SC30
SC20
SC2
SCMM5
SCMM4
SCMM3
SCMM2
SCMM1
TPVAD
TPVSET
TPVSCN
TPVSUS
TPSC
L697
L698
L699
C419
C418
C806
C842
C691
C635
C634
C633
C632
C411
C412
C413
C414
C415
C416
L411
L412
L413
L414
L415
L416
L401
L402
L403
L404
L405
L406
● 50"
▶ 46"
▢ 42"
TNPA4410
①SC
CRNo.16□□□
ORDER NO.
PbF
Discharge
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

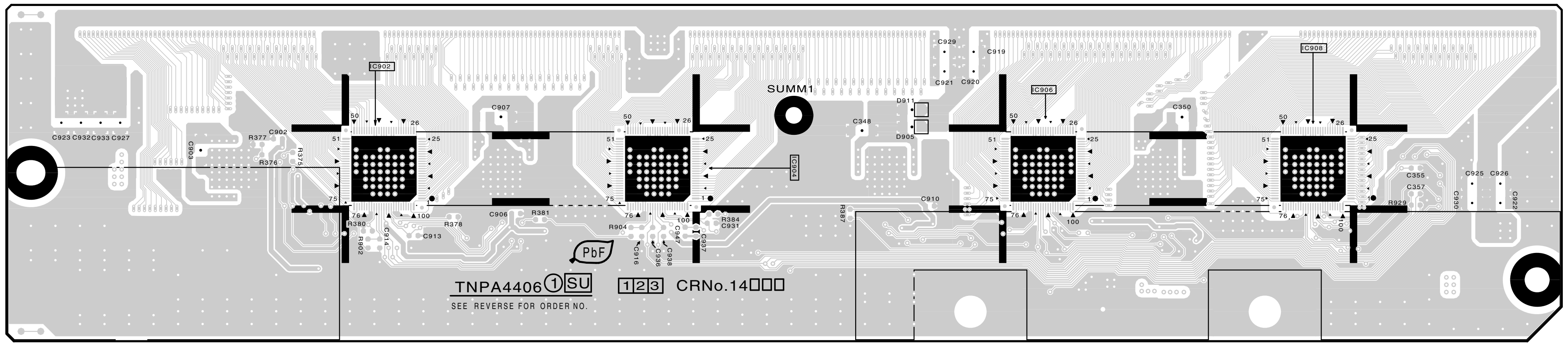
TH-50PZ85U
SC-BOARD TXNSC1RJTUS

TH-50PZ85U
SC-BOARD TXNSC1RJTUS

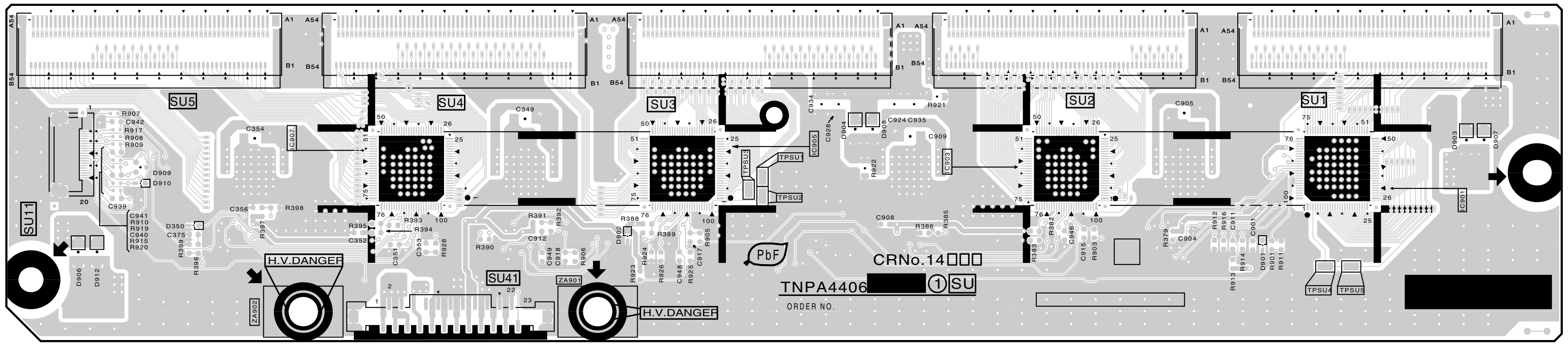
12.11. SU-Board



SU-BOARD (FOIL SIDE)
TXNSU1RJTU


SUMM1
IC902
IC906
IC908
TNPA4406①SU
SEE REVERSE FOR ORDER NO.
123 CRNo.14□□□
PbF

SU-BOARD (COMPONENT SIDE)
TXNSU1RJTU


SU1
SU2
SU3
SU4
SU5
SU11
SU41
H.V.DANGER
H.V.DANGER
TPSU1
TPSU2
TPSU4
TPSU5
CRNo.14□□□
TNPA4406①SU
ORDER NO.
PbF

Parts Location

SU-BOARD	
IC	
IC14901	G-2
IC14902	B-4
IC14903	E-2
IC14904	D-4
IC14905	D-2
IC14906	E-4
IC14907	B-2
IC14908	G-4
TEST POINT	
TPSU1	D-2
TPSU2	D-1
TPSU3	D-2
TPSU4	G-1
TPSU5	G-1

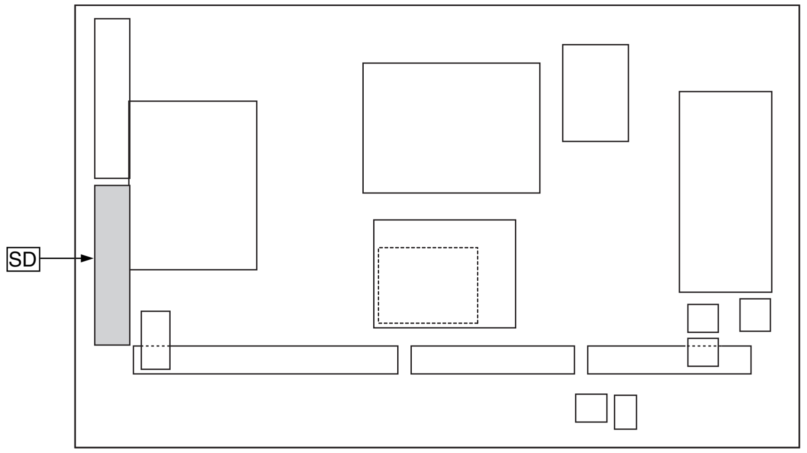
6
5
4
3
2
1

TH-50PZ85U
SU-BOARD TXNSU1RJTU

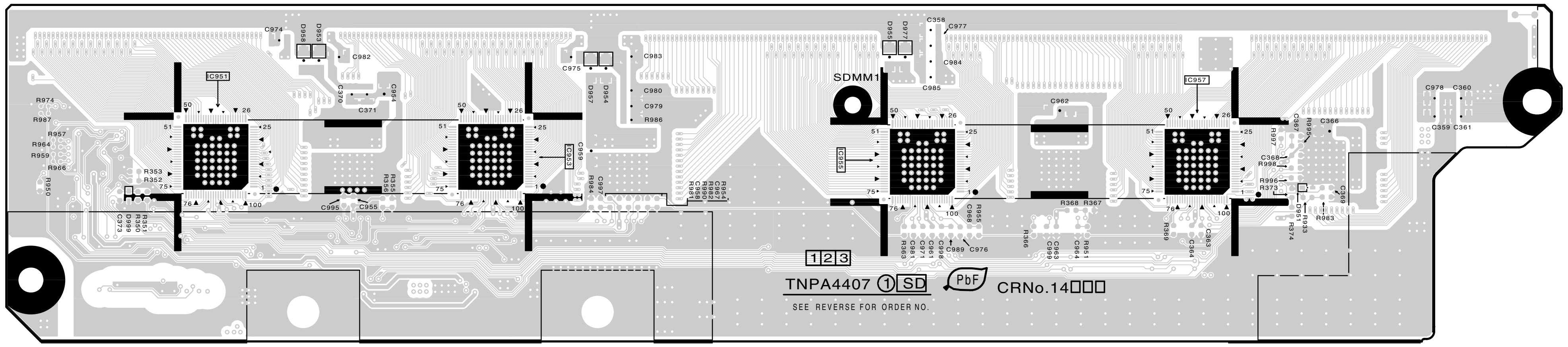
TH-50PZ85U
SU-BOARD TXNSU1RJTU

A B C D E F G H I

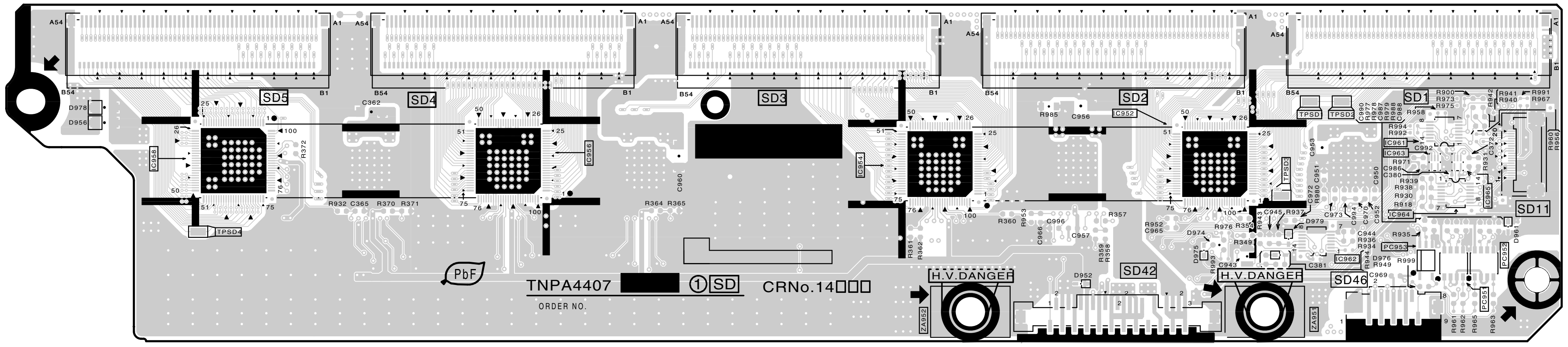
12.12. SD-Board



SD-BOARD (FOIL SIDE)
TXNSD1RJTU


IC951
SDMM1
IC957
1 2 3
TNPA4407 ① SD
PbF
CRNo.14□□□
SEE REVERSE FOR ORDER NO.

SD-BOARD (COMPONENT SIDE)
TXNSD1RJTU


SD5
SD4
SD3
SD2
SD1
SD11
SD42
SD46
TPSD4
TPSD1
TPSD2
H.V.DANGER
H.V.DANGER
PbF
TNPA4407
① SD
CRNo.14□□□
ORDER NO.

6
5
4
3
2
1

A B C D E F G H I

Parts Location

SD-BOARD	
IC	
IC14951	B-4
IC14952	F-2
IC14953	C-4
IC14954	E-2
IC14955	E-4
IC14956	C-2
IC14957	F-4
IC14958	B-2
IC14961	G-2
IC14962	G-1
IC14963	G-2
IC14964	G-1
IC14965	G-2
TRANSISTER	
PC14951	G-1
PC14952	G-1
PC14953	G-1
TEST POINT	
TPSD1	G-2
TPSD2	G-2
TPSD3	F-2
TPSD4	B-1

12.13. SS-Board

Parts Location

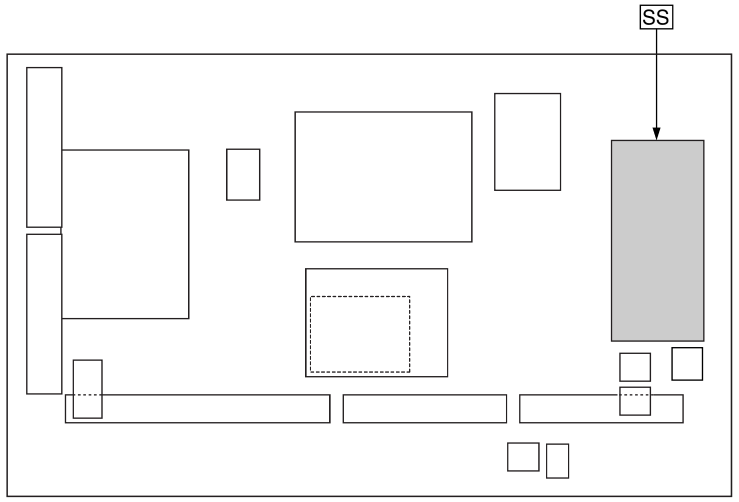
SS-BOARD (FOIL SIDE)

IC	
IC16301	C-1

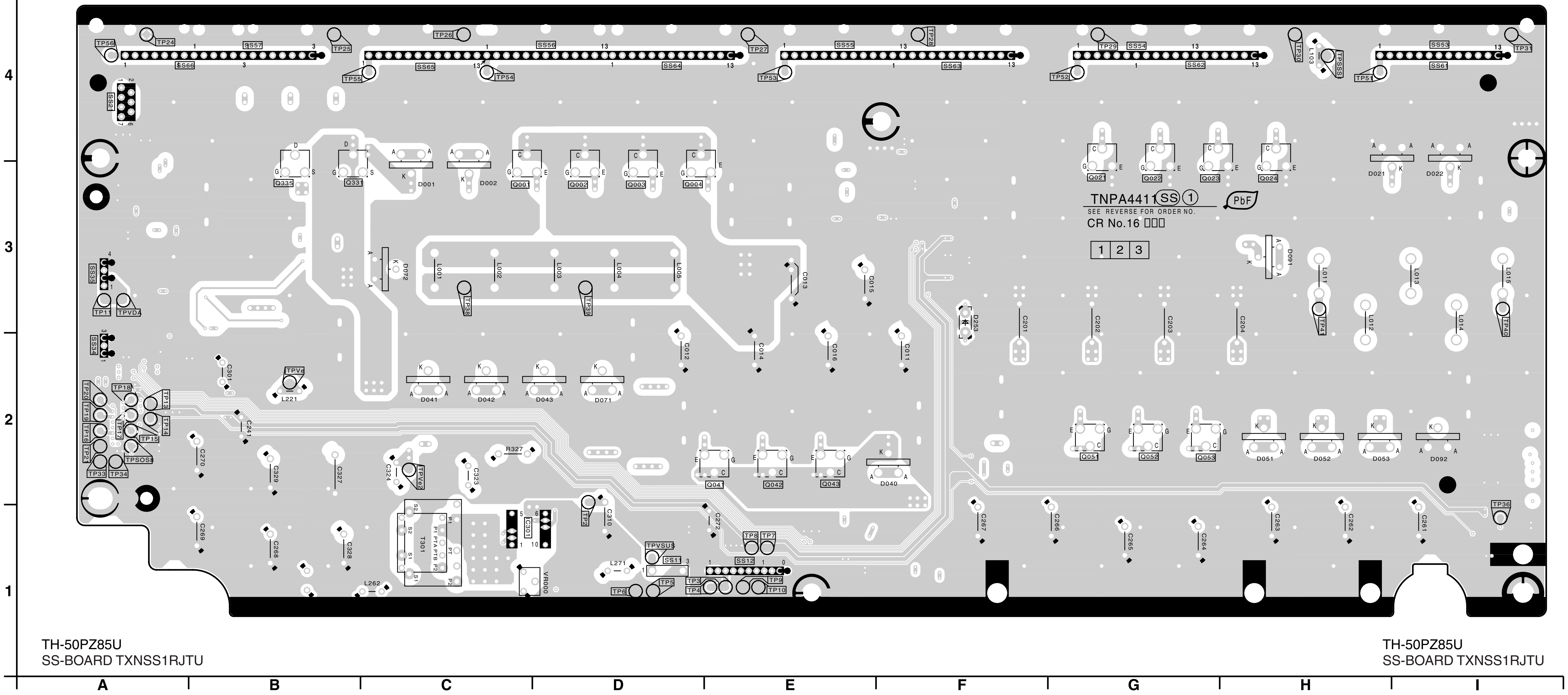
TRANSISTOR	
Q16001	C-3
Q16002	D-3
Q16003	D-3
Q16004	D-3
Q16021	G-3
Q16022	G-3
Q16023	G-3
Q16024	H-3
Q16041	E-2
Q16042	E-2
Q16043	E-2
Q16051	G-2
Q16052	G-2
Q16053	G-2
Q16331	B-3
Q16335	B-3

TEST POINT					
TP2	D-1	TP25	B-4	TPSOS8	A-2
TP3	D-1	TP26	C-4	TPSS1	H-4
TP4	D-1	TP27	E-4	TPVDA	A-3
TP5	D-1	TP28	F-4	TPVe	B-2
TP6	D-1	TP29	G-4	TPVe2	C-2
TP7	E-1	TP30	H-4	TPVSUS	D-1
TP8	E-1	TP31	I-4		
TP9	E-1	TP33	A-2		
TP10	E-1	TP34	A-2		
TP11	A-3	TP36	I-1		
TP13	A-2	TP38	C-3		
TP14	A-2	TP39	D-3		
TP15	A-2	TP40	I-3		
TP16	A-2	TP41	H-3		
TP17	A-2	TP51	H-4		
TP18	A-2	TP52	G-4		
TP19	A-2	TP53	E-4		
TP20	A-2	TP54	C-4		
TP21	A-2	TP55	B-4		
TP24	A-4	TP56	A-4		

VOLUME	
VR16000	D-1



SS-BOARD (FOIL SIDE)
TXNSS1RJTU


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TP56
TP24
SS57
SS66
TP25
TP55
SS65
TP26
SS56
TP54
SS64
TP27
TP53
SS55
SS63
TP28
TP29
SS54
TP52
SS62
TP30
TPSS1
TP51
SS53
SS61
TP31
SS2
SS35
TP11
TPVDA
SS34
Q335
Q331
D001
D002
Q001
Q002
Q003
Q004
Q021
Q022
Q023
Q024
D021
D022
TNPA4411 SS 1
PbF
SEE REVERSE FOR ORDER NO.
CR No.16
1 2 3
D072
L001
L002
L003
L004
L005
TP38
TP39
C013
C015
D253
C201
C202
C203
C204
D091
L011
L013
L015
TP41
L012
L014
TP40
C012
C014
C016
C011
C301
TPVe
L221
D041
D042
D043
D071
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TPSOS8
TP33
TP34
C241
C270
C329
C327
C324
TPVe2
C323
R327
Q041
Q042
Q043
D040
Q051
Q052
Q053
D051
D052
D053
D092
TP36
C269
C268
C328
L262
T301
IC301
VR000
TP2
C310
C272
TPVSUS
SS11
L271
TP5
TP6
TP3
TP4
TP8
TP7
SS12
TP9
TP10
C267
C266
C265
C264
C263
C262
C261

TH-50PZ85U
SS-BOARD TXNSS1RJTU

TH-50PZ85U
SS-BOARD TXNSS1RJTU

Parts Location

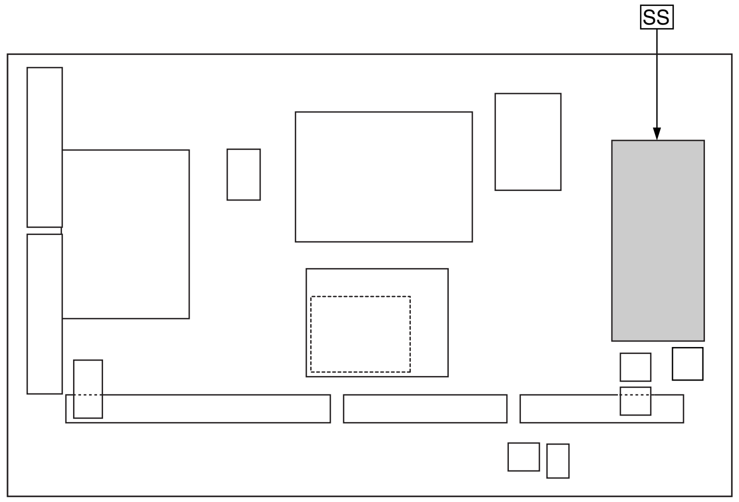
SS-BOARD (COMPONENT SIDE)

IC	
IC16131	E-3
IC16151	E-1
IC16191	I-3
IC16241	I-2
IC16251	D-3
IC16301	G-2
IC16302	G-2
IC16303	I-2

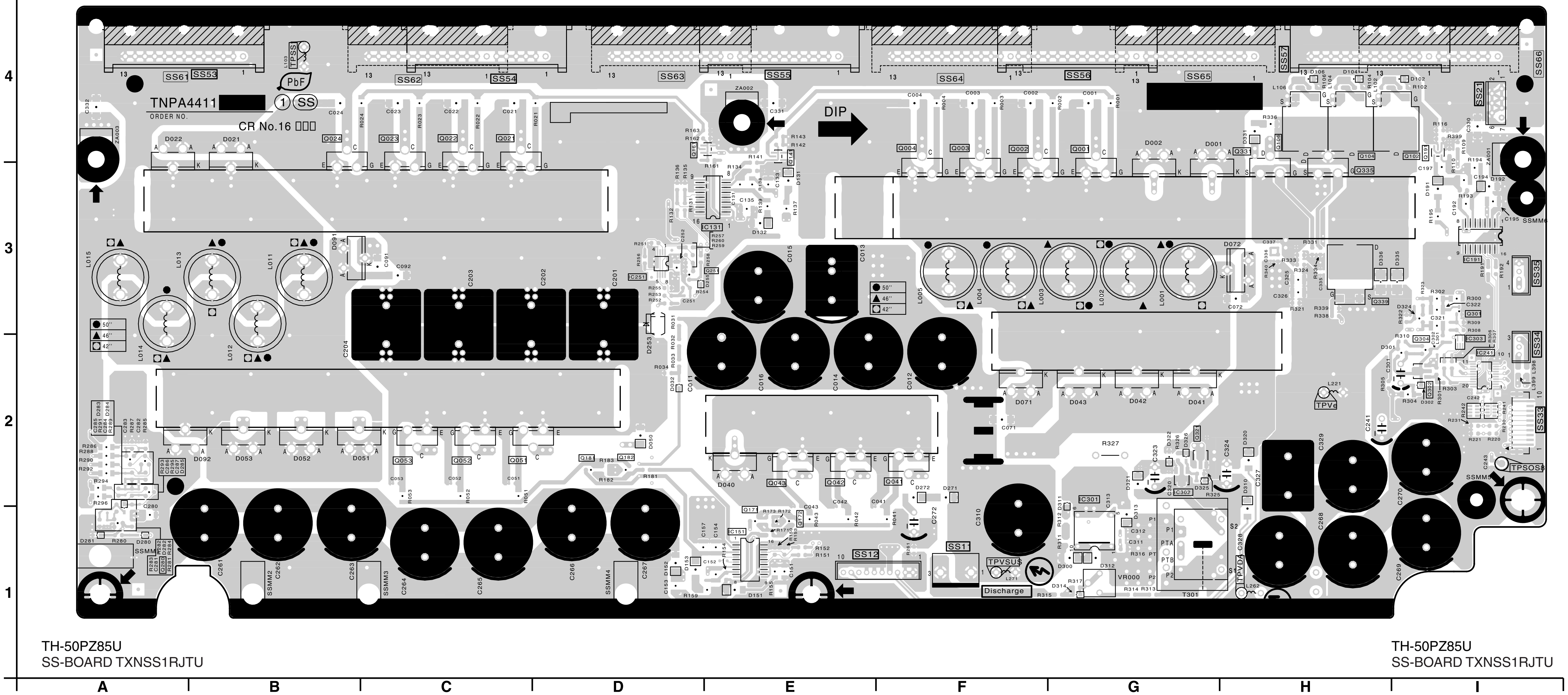
TRANSISTOR			
Q16001	G-4	Q16106	H-4
Q16002	F-4	Q16141	E-4
Q16003	F-4	Q16161	D-4
Q16004	F-4	Q16171	E-1
Q16021	C-4	Q16172	E-1
Q16022	C-4	Q16181	D-2
Q16023	C-4	Q16182	D-2
Q16024	B-4	Q16191	I-4
Q16041	F-2	Q16251	E-3
Q16042	E-2	Q16280	A-1
Q16043	E-2	Q16301	I-3
Q16051	C-2	Q16302	I-2
Q16052	C-2	Q16304	I-2
Q16053	C-2	Q16321	G-2
Q16102	I-4	Q16331	H-4
Q16104	H-4	Q16335	H-3
		Q16339	H-3

TEST POINT	
TPSOS8	I-2
TPSS1	B-4
TPVDA	H-1
TPVe	H-2
TPVSUS	F-1

VOLUME	
VR16000	G-1



SS-BOARD (COMPONENT SIDE)
TXNSS1RJTU


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPA4411
ORDER NO.
CR No.16
PbF
SS
TPSS1
SS61
SS53
SS62
SS54
SS63
SS55
SS64
SS56
SS65
SS57
SS66
SS21
SS35
SS34
SS33
SS1
SS12
DIP
50"
46"
42"
IC131
IC151
IC191
IC251
IC301
IC302
IC303
IC241
TPVe
TPSOS8
TPVSUS
TPVDA
Discharge
VR000
T301
SSMM1
SSMM2
SSMM3
SSMM4
SSMM5
SSMM6

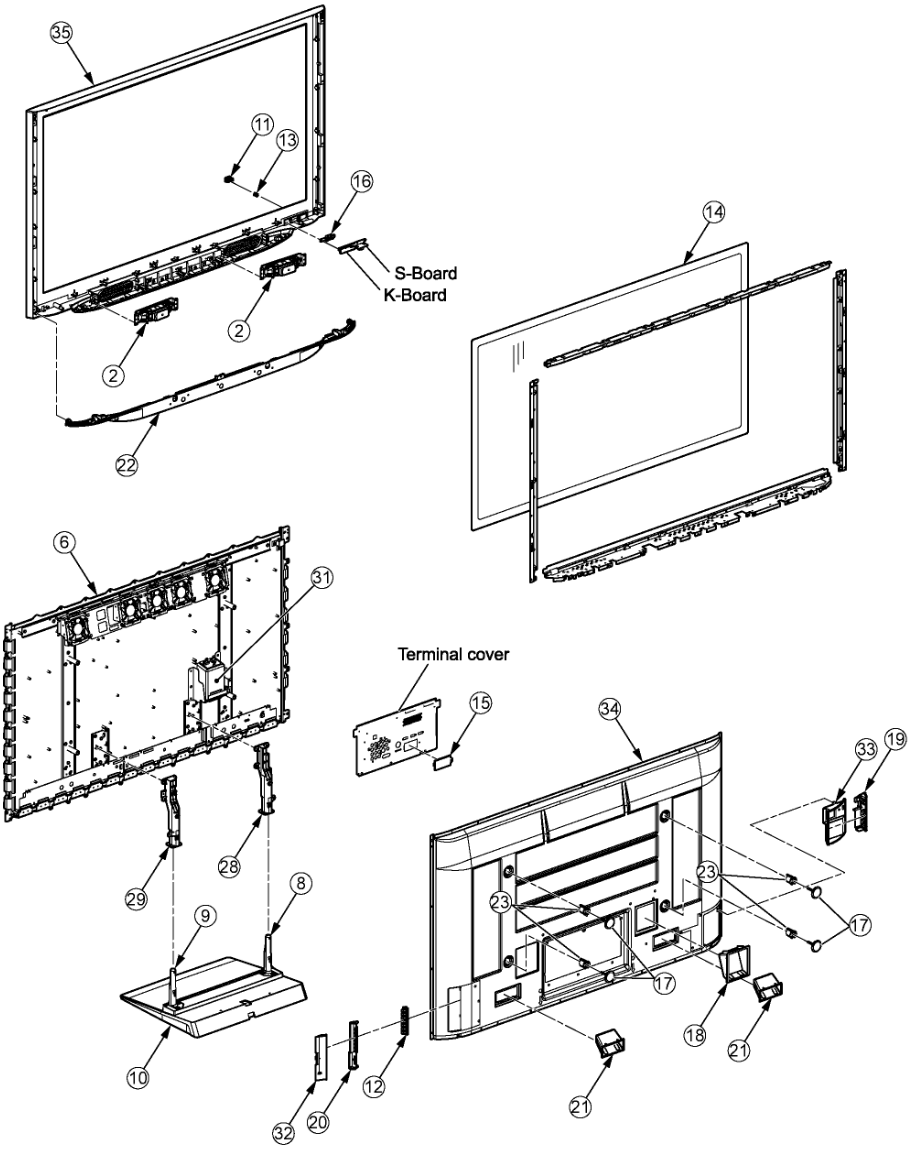
TH-50PZ85U
SS-BOARD TXNSS1RJTU

TH-50PZ85U
SS-BOARD TXNSS1RJTU

13 Exploded View and Replacement Parts List

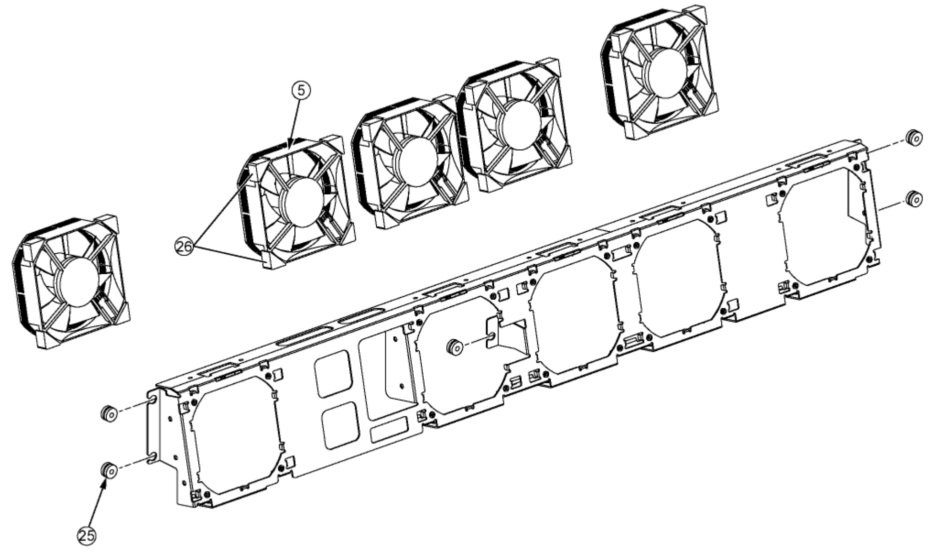
13.1. Exploded View and Mechanical Replacement Parts List

13.1.1. Exploded View

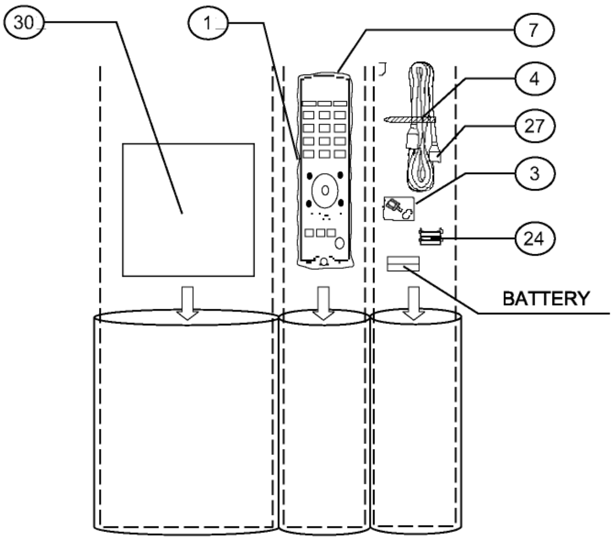


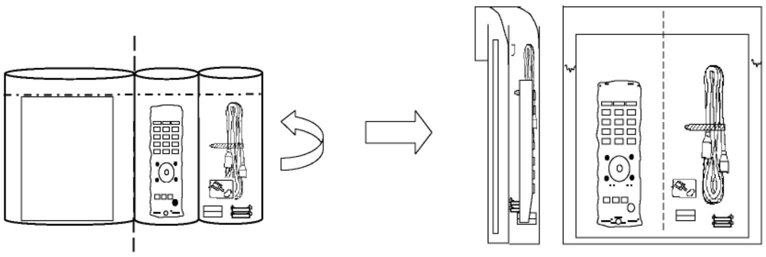
㉟
⑪
⑬
⑯
S-Board
K-Board
②
②
②
㉒
⑭
⑥
㉛
Terminal cover
⑮
㉞
㉝
⑲
㉓
㉓
⑰
⑰
㉙
㉘
⑧
⑨
⑩
⑫
⑳
㉜
⑱
㉑
㉑

13.1.2. Fan part location



13.1.3. Accessories


30
1
7
4
27
3
24
BATTERY



13.1.4. Mechanical Replacement Parts List

Note: Important Safety Notice
Components identified by ⚠ mark have special characteristics **important for safety**.
When replacing any of these components, use only manufactu**rer's specified parts**.

Note: All parts except parts mentioned [PAVCA] in the Remarks column are supplied by PAVC-CSG.
Parts mentioned [PAVCA] are supplied by PAVCA.

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	10030-0035400	BATTERY COVER	1	PAVCA
	2	EAS16S10A	SPEAKER	2	PAVCA
	3	K1RYYYA00016	F-TYPE (5C)	1	
⚠	4	K2CG3YY00029	AC CORD	1	PAVCA
	5	L6FAYYYH0050	FAN(80MM)	2	
⚠	6	MD50F11A1J	PLASMA DISPLAY PANEL	1	
	7	N2QAYB000220	REMOTE CONTROL	1	PAVCA
	8	TBLA3614	STAND POLE REFT	1	
	9	TBLA3615	STAND POLE LIGHT	1	
	10	TBLX0034	PEDESTAL STAND	1	PAVCA
	11	TBX2AA4802-1	POWER BUTTON	1	PAVCA
	12	TBX2AA4902	CONTROL BUTTON	1	PAVCA
	13	TES2AA0191	POWER BUTTON SPRING	1	PAVCA
		THEJ016J	SCREW(AC INRET:2)	2	
		THEL037N	SCREW	30	
		THEL0429	SCREW	19	
		THEL060N	SCREW(STAND-TV)	4	
		THTD013N	SCREW	6	
		THTF011N	SCREW	62	
	14	TKGA5437S	FRONT GLASS(50FHD-AG)	1	PAVCA
	15	TKK2AA7701	ADJUSTMENT COVER	1	PAVCA
	16	TKK2AA8501	LED PANEL	1	PAVCA
	17	TKP2AA11201	M8 SPACER CAP	4	PAVCA
⚠	18	TKP2AA7901	INLET COVER	1	PAVCA
	19	TKP2AA8401	SIDE TERMINAL PANEL TOP	1	PAVCA
	20	TKP2AX0201	SIDE CONTROL PANEL BOTTOM	1	PAVCA
⚠	21	TKR2AA00161	REAR COVER HANDLE	2	PAVCA
⚠	22	TKU2AC7202	REAR C0VER (BOTTOM)	1	PAVCA
		TMM15414-2	CLAMPER	1	
		TMM17499	CLAMPER	1	
	23	TMM2AD01101	M8 SPACER	4	PAVCA
		TMM6428-1	CLAMPER	1	
		TMM7464-2	CLAMPER	3	
		TMME084	CLAMPER	3	
		TMME088	CLAMPER	4	
		TMME190	CLAMPER	1	
		TMME199	CLAMPER	1	
		TMME260	CLAMPER	2	
		TMME287	CLAMPER	9	
	24	TMME289	CLAMPER	2	
		TMME292	CLAMPER	7	
	25	TMMJ068	RUBBER(FAN)	6	
	26	TMMJ082	SPONGE(FAN CORNER)	8	

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	27	TMXX041	AC CORD CLAMPER	2	
	28	TMZ2AX0301	STAND BRACKET LEFT	1	PAVCA
	29	TMZ2AX0302	STAND BRACKET RIGHT	1	PAVCA
		TPD169487	JOINT	4	
		TPEB331	BAG (PEDESTAL STAND)	1	
		TPEH273	TOP PROTECT SHEET(TOP/BOT)	2	
⚠	30	TQB2AA0773	INSTRUCTION BOOK(ENG/FRE/SPA)	1	PAVCA
		TQZH983	SCREW USE HANDBILL	1	
		TSXL519	CABLE(C10-C20/SU11-SD11)	2	
		TSXL526	CABLE SCN-FPC	10	
		TSXL594	CABLE SUS-FPC	4	
		TSXL659	CABLE(SC20-D20)	1	PAVCA
		TSXL660	CABLE(D31-C11/D32-C21/D33	3	PAVCA
		TSXL661	CABLE(C26-C36)	1	PAVCA
⚠	31	TXALK01RJTU	AC INLET ASSY	1	PAVCA
	32	TXFKP04TSER	SIDE DOOR ASSY	1	PAVCA
	33	TXFKP05TSER	SIDE TERMINAL PANEL BOTTO	1	PAVCA
⚠	34	TXFKU04TSER	REAR COVER	1	PAVCA
⚠	35	TXFKY01RJTUA	CABINET ASSY	1	PAVCA
		TXJA12RJTU	SPEAKER LEAD(A12-SPL/SPR)	1	PAVCA
		TXJSWRRLTU	SPEAKER LEAD(SP-SPR/L)	2	PAVCA
		XSB3+6FJ	SCREW (LCD MTG)	2	
		XTB4+12GFJ	SCREW	34	
		XTB4+12GFJK	SCREW	20	
		XTV3+10JFJK	SCREW	1	
		XTV3+8GFJ	SCREW(BC HOOK:2)	4	
		XTV3+8GFJK	SCREW	1	
		XTW3+8TFJ	SCREW	6	
		XYN3+F8FJ	SCREW	29	
		XYN3+J12FJ	SCREW	39	
		XYN3+J8FJ	SCREW	2	
		XYN4+E8FJ	SCREW	1	
		XYN4+F10FJ	SCREW	14	
		XYN4+F14FJ	SCREW	6	
		XYN5+C15FJ	SCREW	8	
		XYN5+F18FN	SCREW(FOR STAND POLE)	4	
		XZB17X19C03	POLY BAG(STAND POLE)	1	

13.2. Electrical Replacement Parts List

13.2.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon F : Fuse M : Metal Oxide Metal FIlm S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

Type	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyproplene T : Tantalum	C : ±0.25pF D : ±0.5pF F : ±1pF G : ±3pF J : ±5pF K : ±10pF L : ±15pF M : ±20pF P : +100%, -0% Z : +80%, -20%

13.2.2. Electrical Replacement Parts List

Note: All parts except parts mentioned [PAVCA] in the Remarks column are supplied by PAVC-CSG. Parts mentioned [PAVCA] are supplied by PAVCA.

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	A1	K1KA09A00220	9P CONNECTOR	1	
	A3	K1KA14B00129	14P CONNECTOR	1	
	A5	K1KB31AA0140	31P CONNECTOR	1	
	A6	K1KA12AA0194	12P CONNECTOR	1	
	A7	K1KA09AA0193	9P CONNECTOR	1	
	A11	K1KA30B00078	30P CONNECTOR	1	
	A12	K1KA04AA0190	4P CONNECTOR	1	
	A17	K1KA20AA0009	20P CONNECTOR	1	
	A18	K1KA11AA0715	11P CONNECTOR	1	
	A30	K1KA05AA0193	5P CONNECTOR	1	
	A51	K1KA11A00178	11P CONNECTOR	1	
	A52	K1KA14A00248	14P CONNECTOR	1	
	AMM1-M5	TMME292	CLAMPER	5	
	C10	K1MN20BA0231	20P CONNECTOR	1	
	C11	K1MN68BA0266	68P CONNECTOR	1	
	C20	K1MN20BA0266	20P CONNECTOR	1	PAVCA
	C21,22	K1MN68BA0266	68P CONNECTOR	2	
	C26	K1MN68BA0266	68P CONNECTOR	1	
	C33	K1KA10B00218	10P CONNECTOR	1	
	C35	K1KA04BA0107	4P CONNECTOR	1	
	C36	K1MN68BA0266	68P CONNECTOR	1	
	C858,59	ECJ2VB1E104K	C 0.1UF, K, 25V	2	
	C860	ECA1EHG471	E 470UF, 25V	1	
	C861,62	ECJ2VB1E104K	C 0.1UF, K, 25V	2	
	C869	ECA1EHG471	E 470UF, 25V	1	
	C1102	F1J1A106A043	C 0.010UF, K, 10V	1	
	C1103,04	F1G1C104A116	C 0.10UF, K, 16V	2	
	C1106	F1G1H270A731	E 27UF, 50V	1	
	C1107	F1G1H220A731	E 22UF, 50V	1	
	C1108	F1G1C104A116	C 0.10UF, K, 16V	1	
	C1109	F1H1A1050032	E 10UF, 50V	1	
	C1111	F1H1A1050032	E 10UF, 50V	1	
	C1112	F1G1C104A116	C 0.10UF, K, 16V	1	
	C1114	F1G1C104A116	C 0.10UF, K, 16V	1	
	C1117	F1G1C104A116	C 0.10UF, K, 16V	1	
	C1122	F1G1E103A123	C 0.010UF, K, 16V	1	
	C1123	F1H1A1050032	E 10UF, 50V	1	
	C2023	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2048-50	F1G1C104A116	C 0.10UF, K, 16V	3	
	C2052,53	F1G1C104A116	C 0.10UF, K, 16V	2	
	C2054	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2055	F1G1H120A731	E 12UF, 50V	1	
	C2056	F1G1H150A731	E 15UF, 50V	1	
	C2058	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2059	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2100	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2101	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2105,06	F1G1C104A116	C 0.10UF, K, 16V	2	
	C2107,08	F1J1A106A043	C 0.010UF, K, 10V	2	
	C2111	F1H0J2250008	C 2.2UF, K, 16V	1	
	C2116	F1G1H471A731	E 470UF, 50V	1	
	C2118	F1H1A1050032	E 10UF, 50V	1	
	C2126	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2180,81	F1G1E103A123	C 0.010UF, K, 16V	2	
	C2186	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2187	F1H0J2250008	C 2.2UF, K, 16V	1	
	C2188	F1G1H471A731	E 470UF, 50V	1	
	C2189	F1H1A1050032	E 10UF, 50V	1	
	C2190	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2192	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2195-98	F1G1E103A123	C 0.010UF, K, 16V	4	
	C2213	F1G1H102A730	E 1000UF, 50V	1	
	C2216	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2244	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2245	F1G1H102A730	E 1000UF, 50V	1	
	C2251	F1J1A106A043	C 0.010UF, K, 10V	1	
	C2263,64	F1J1A106A043	C 0.010UF, K, 10V	2	
	C2301,02	F1G1C104A116	C 0.10UF, K, 16V	2	
	C2303	F1J1E105A171	C 1 UF 25V	1	
	C2305	F1J1E105A171	C 1 UF 25V	1	
	C2307	F1J1E105A171	C 1 UF 25V	1	
	C2309	F1J1E105A171	C 1 UF 25V	1	
	C2313	F1H1A1050032	E 10UF, 50V	1	
	C2317	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2319	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2321	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2323	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2333	F1J1E3340003	C 0.33UF, Z, 25V	1	
	C2335	F1J1E3340003	C 0.33UF, Z, 25V	1	
	C2337	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2339	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2341	F1J1E3340003	C 0.33UF, Z, 25V	1	
	C2343	F1J1E3340003	C 0.33UF, Z, 25V	1	
	C2345	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2347	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2353	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2359	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C2375	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2377	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2379	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2381	F1H1H223A970	C 0.22UF, K, 50V	1	
	C2383	F1G1H102A730	E 1000UF, 50V	1	
	C2385	F1G1H102A730	E 1000UF, 50V	1	
	C2387	F1G1H102A730	E 1000UF, 50V	1	
	C2389	F1G1H102A730	E 1000UF, 50V	1	
	C2512	ECJ3XB0J106M	C 10UF, M,6.3V	1	
	C2515	F1H1H103A970	C 0.001UF, K, 50V	1	
	C2521	F1H1H103A970	C 0.001UF, K, 50V	1	
	C2522	F1H1C104A143	C 0.1UF, K, 16V	1	
	C3001	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3006-08	F1J1A106A043	C 0.010UF, K, 10V	3	
	C3010,11	ECJ0EB1C103K	C 0.010UF, K, 16V	2	
	C3013	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3015,16	F1J1A106A043	C 0.010UF, K, 10V	2	
	C3017	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3019	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3020	EEEHB1C220R	C 22PF, J, 16V	1	
	C3021	F2G1A221A149	E 220UF, 10V	1	
	C3022	F1G1C104A116	C 0.10UF, K, 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3023	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3024-35	F1H1A1050032	E 10UF, 50V	12	
	C3042-47	F1J1A106A043	C 0.010UF, K, 10V	6	
	C3049	F2G1A101A019	E 100UF, 10V	1	
	C3050	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3051,52	F1H1A1050032	E 10UF, 50V	2	
	C3057	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3059	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3061	F1J1A106A043	C 0.010UF, K, 10V	1	
	C3123,24	F1J1A106A043	C 0.010UF, K, 10V	2	
	C3157	F1G1C104A081	C 0.10UF, K, 16V	1	
	C3530	EEEFG1E471P	E 470UF, 25V	1	
	C3532	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C3750	F1J1H102A721	C 1000UF, 50V	1	
	C3801,02	F1G1C104A116	C 0.10UF, K, 16V	2	
	C3803	F1H1A1050032	E 10UF, 50V	1	
	C3804	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3806-12	F1G1C104A116	C 0.10UF, K, 16V	7	
	C3813	F1J0J106A004	C 0.010UF, K, 16V	1	
	C3814	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3815-20	ECJ0EB1C103K	C 0.010UF, K, 16V	6	
	C3823	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3827	F1H0J4750004	C 4.7UF, K, 16V	1	
	C3829	F1H1A1050032	E 10UF, 50V	1	
	C4075	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4081	EEEHB1A221P	C 220PF, J, 10V	1	
	C4082	F1K1C1060004	C 0.010UF, 16V	1	
	C4083-87	F1J1H474A757	C 0.47UF, 50V	5	
	C4089	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4090	F1G1H181A731	E 180UF, 50V	1	PAVCA
	C4091	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4092	F2G1V220A020	E 22UF, 35V	1	
	C4093	F1G1H102A730	E 1000UF, 50V	1	
	C4094	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4095	F1H0J2250008	C 2.2UF, K, 16V	1	
	C4096	F1H1A1050032	E 10UF, 50V	1	
	C4098	F1H1A1050032	E 10UF, 50V	1	
	C4101	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4200-08	F1G1C104A116	C 0.10UF, K, 16V	9	
	C4210-15	F1G1C104A116	C 0.10UF, K, 16V	6	
	C4216	F1G1H1020008	E 1000UF, 50V	1	
	C4219	F1G1H1020008	E 1000UF, 50V	1	
	C4220-24	F1J0J106A021	C 0.010UF, K, 16V	5	
	C4500,01	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4533	F1G1H680A731	E 68UF, 50V	1	
	C4534,35	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4547-52	F1G1C104A116	C 0.10UF, K, 16V	6	
	C4553	F1G1H102A730	E 1000UF, 50V	1	
	C4554	EEEHB1C470P	C 47PF, J, 16V	1	
	C4555	F1J1A106A043	C 0.010UF, K, 10V	1	
	C4574	F1G1E103A123	C 0.010UF, K, 16V	1	
	C4575	F1H1A1050032	E 10UF, 50V	1	
	C4580	F1G1E103A123	C 0.010UF, K, 16V	1	
	C4585	F1H1A1050032	E 10UF, 50V	1	
	C4595	F1G1E103A123	C 0.010UF, K, 16V	1	
	C4596	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4598	F1H1A1050032	E 10UF, 50V	1	
	C4599	F2G0J470A019	E 47UF 6.3V	1	
	C4600	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4601	F2G0J470A019	E 47UF 6.3V	1	
	C4602	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4603	F1H0J2250008	C 2.2UF, K, 16V	1	
	C4604	F1G1H471A730	E 470UF, 50V	1	PAVCA
	C4605	F1H1A1050032	E 10UF, 50V	1	
	C4606,07	F1J1A106A043	C 0.010UF, K, 10V	2	
	C4608	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4612	F1G1E103A123	C 0.010UF, K, 16V	1	
	C4613	F1H1A1050032	E 10UF, 50V	1	
	C4614	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4616,17	F1J1A106A043	C 0.010UF, K, 10V	2	
	C4619	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4624-26	F1G1C104A116	C 0.10UF, K, 16V	3	
	C4630	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4632	F1H1A1050032	E 10UF, 50V	1	
	C4634	F1H1A1050032	E 10UF, 50V	1	
	C4636	F1H1A1050032	E 10UF, 50V	1	
	C4638	F1H1A1050032	E 10UF, 50V	1	
	C4640	F1H1A1050032	E 10UF, 50V	1	
	C4642	F1H1A1050032	E 10UF, 50V	1	
	C4643-46	F1G1C104A116	C 0.10UF, K, 16V	4	
	C4701	F1G1H102A730	E 1000UF, 50V	1	
	C4702	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4703	F1G1H102A730	E 1000UF, 50V	1	
	C4704,05	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4711,12	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4713,14	F1G1H102A730	E 1000UF, 50V	2	
	C4715	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4716-19	F1G1H102A730	E 1000UF, 50V	4	
	C4721	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4722	F1G1H102A730	E 1000UF, 50V	1	
	C4724	F1G1H102A730	E 1000UF, 50V	1	
	C4725-28	F1G1C104A116	C 0.10UF, K, 16V	4	
	C4741	F1G1H102A730	E 1000UF, 50V	1	
	C4742	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4743	F1G1H102A730	E 1000UF, 50V	1	
	C4744,45	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4746	F1G1H102A730	E 1000UF, 50V	1	
	C4751-55	F1G1C104A116	C 0.10UF, K, 16V	5	
	C4761-63	F1H1H103A970	C 0.001UF, K, 50V	3	
	C4771	F1G1H102A730	E 1000UF, 50V	1	
	C4772	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4773	F1G1H102A730	E 1000UF, 50V	1	
	C4774,75	F1G1C104A116	C 0.10UF, K, 16V	2	
	C4776	F1G1H102A730	E 1000UF, 50V	1	
	C4777-80	F1G1C104A116	C 0.10UF, K, 16V	4	
	C4795-98	F1G1H102A730	E 1000UF, 50V	4	
	C4830	F1G1C104A116	C 0.10UF, K, 16V	1	
	C5400	F1K1A106A021	C 0.010UF, K,6.3V	1	
	C5401	F1H1E104A129	E 0.1UF, 25V	1	
	C5402	F1G1E103A123	C 0.010UF, K, 16V	1	
	C5404	F1G1E392A123	C 3900UF, Z, 25V	1	PAVCA
	C5405	F1H1E104A129	E 0.1UF, 25V	1	
	C5406	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C5408	F1K1A106A021	C 0.010UF, K,6.3V	1	
	C5412	F1K1C1060004	C 0.010UF, 16V	1	
	C5413	F1H1E104A129	E 0.1UF, 25V	1	
	C5414	F1G1E103A123	C 0.010UF, K, 16V	1	
	C5416	F1G1E472A123	C 4200UF, Z, 25V	1	PAVCA
	C5417	F1H1E104A129	E 0.1UF, 25V	1	
	C5418	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C5420	F1K1C1060004	C 0.010UF, 16V	1	
	C5521,22	F1G1C104A116	C 0.10UF, K, 16V	2	
	C5600	F1H1A1050032	E 10UF, 50V	1	
	C5601	F1G1C104A116	C 0.10UF, K, 16V	1	
	C5602	ECGRL0G680ER	C 68PF, J, 4V	1	
	C5603,04	F1G1E103A123	C 0.010UF, K, 16V	2	
	C5605	F1J1A475A039	C 4.7UF, K, 10V	1	
	C5606	F1G1H471A730	E 470UF, 50V	1	PAVCA
	C5607	F1G1H221A731	E 220UF, 50V	1	PAVCA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C5608	F1G1C104A116	C 0.10UF, K, 16V	1	
	C5611,12	ECJ3YB1E106M	C 10 UF, K, 25V	2	
	C5615	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C5616	F1G1A473A053	E 0.47UF, 10V	1	
	C5617	F1H1A1050032	E 10UF, 50V	1	
	C5618,19	ECJ3YB1E106M	C 10 UF, K, 25V	2	
	C5620	F1H1E104A129	E 0.1UF, 25V	1	
	C5621	F1G1E103A123	C 0.010UF, K, 16V	1	
	C5622	F1J1A475A039	C 4.7UF, K, 10V	1	
	C5623	F1G1H471A730	E 470UF, 50V	1	PAVCA
	C5624	F1G1H221A731	E 220UF, 50V	1	PAVCA
	C5625	F1G1E103A123	C 0.010UF, K, 16V	1	
	C5626,27	F1G1C104A116	C 0.10UF, K, 16V	2	
	C5628,29	ECGRL0G680ER	C 68PF, J, 4V	2	
	C5631	EEEHB1E470P	C 47PF, J, 25V	1	
	C5632	F1J1E105A171	C 1 UF 25V	1	
	C5636-41	F1G1C104A116	C 0.10UF, K, 16V	6	
	C5642	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C5643	F1H1E104A129	E 0.1UF, 25V	1	
	C5644	F1G1E103A123	C 0.010UF, K, 16V	1	
	C5652	F1H1H102A971	C 1000PF, K, 50V	1	
	C5663,64	F1J0J106A020	C 0.010UF, K, 16V	2	
	C5667	F1G1H101A731	C 100PF, K, 50V	1	
	C5688	F1H1A225A051	E 22UF, 50V	1	
	C5731	F2G0J470A019	E 47UF 6.3V	1	
	C5765	F1G1A473A053	E 0.47UF, 10V	1	
	C5766,67	ECJ0EB1C103K	C 0.010UF, K, 16V	2	
	C7701	F1H1H330A971	E 33UF, 50V	1	PAVCA
	C7702	F2A1C470A263	E 47UF, 16V	1	PAVCA
	C7703	F1H1H330A971	E 33UF, 50V	1	PAVCA
	C7705	F1H1C104A144	C 0.1UF, K, 16V	1	PAVCA
	C7708,09	F1H1C104A144	C 0.1UF, K, 16V	2	PAVCA
	C7710	F1H1H100A971	C 10PF, K, 50V	1	PAVCA
	C7726,27	F1H1H330A971	E 33UF, 50V	2	PAVCA
	C7729,30	F1J0J106A020	C 0.010UF, K, 16V	2	
	C8001	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8002-05	F1H0J1050012	C 1UF, K, 16V	4	
	C8006-08	F1G1C104A116	C 0.10UF, K, 16V	3	
	C8009,10	F1J1A106A043	C 0.010UF, K, 10V	2	
	C8011-14	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8015,16	F1H0J1050012	C 1UF, K, 16V	2	
	C8017	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8018-21	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8022	F1H0J1050012	C 1UF, K, 16V	1	
	C8023,24	F1J1A106A043	C 0.010UF, K, 10V	2	
	C8025-29	F1G1C104A116	C 0.10UF, K, 16V	5	
	C8030,31	F1H0J1050012	C 1UF, K, 16V	2	
	C8032	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8033,34	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8035,36	F1J1A106A043	C 0.010UF, K, 10V	2	
	C8037-41	F1G1C104A116	C 0.10UF, K, 16V	5	
	C8042	ECGRL0G680ER	C 68PF, J, 4V	1	
	C8043-51	F1G1C104A116	C 0.10UF, K, 16V	9	
	C8052	F1H0J1050012	C 1UF, K, 16V	1	
	C8053	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8056,57	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8058	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8067	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8068	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8070-74	F1G1C104A116	C 0.10UF, K, 16V	5	
	C8075	F1J0G2260001	C 0.001UF, 6.3V	1	
	C8076-80	F1G1C104A081	C 0.10UF, K, 16V	5	
	C8301	F1G1H102A730	E 1000UF, 50V	1	
	C8302	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8303	F1G1H103A735	E 0.01UF, 50V	1	PAVCA
	C8304,05	F1G1H221A731	E 220UF, 50V	2	PAVCA
	C8307	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8310	F2G0J2210013	E 220UF 6.3V	1	
	C8311	F2G1V220A020	E 22UF, 35V	1	
	C8312	F2G0J2210013	E 220UF 6.3V	1	
	C8313	F1G1H102A730	E 1000UF, 50V	1	
	C8314	F1G1H270A731	E 27UF, 50V	1	
	C8315,16	F1G1H120A731	E 12UF, 50V	2	
	C8317	F1G1H270A731	E 27UF, 50V	1	
	C8318,19	F1G1H101A731	C 100PF, K, 50V	2	
	C8320	F1G1H220A731	E 22UF, 50V	1	
	C8321,22	ECJ0EB1C103K	C 0.010UF, K, 16V	2	
	C8323,24	F1G1H120A731	E 12UF, 50V	2	
	C8325-28	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8330-35	F1G1C104A116	C 0.10UF, K, 16V	6	
	C8336	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8337-43	F1G1C104A116	C 0.10UF, K, 16V	7	
	C8345	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8346	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8347-54	F1G1C104A116	C 0.10UF, K, 16V	8	
	C8355	F1H0J1050012	C 1UF, K, 16V	1	
	C8357-59	F1J1A106A043	C 0.010UF, K, 10V	3	
	C8360-68	F1G1C104A116	C 0.10UF, K, 16V	9	
	C8369	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8370	F1G1H102A730	E 1000UF, 50V	1	
	C8371	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C8372	F1J1A106A043	C 0.010UF, K, 10V	1	
	C8373	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8374,75	F1J1A106A043	C 0.010UF, K, 10V	2	
	C8376	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8377	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8378	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8379	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8380	F1G1H103A735	E 0.01UF, 50V	1	PAVCA
	C8381	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8382	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8386,87	F1G1H102A730	E 1000UF, 50V	2	
	C8501	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8506	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8513	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C8517	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8519	ECJ0EB1C103K	C 0.010UF, K, 16V	1	
	C9033,34	F1G1C104A119	C 0.10UF, K, 16V	2	
	C9035,36	F1J1A106A043	C 0.010UF, K, 10V	2	
	C9037	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9055-57	F1G1C104A119	C 0.10UF, K, 16V	3	
	C9058	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9067-69	F1G1E103A123	C 0.010UF, K, 16V	3	
	C9096-17	F1G1C104A116	C 0.10UF, K, 16V	22	
	C9119-33	F1G1C104A116	C 0.10UF, K, 16V	15	
	C9135	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9136	F1G1C104A119	C 0.10UF, K, 16V	1	
	C9142	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9143	F1G1C104A119	C 0.10UF, K, 16V	1	
	C9144-50	F1G1C104A116	C 0.10UF, K, 16V	7	
	C9152	F1J0J475A035	C 4.7UF, K, 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C9153-62	F1G1C104A119	C 0.10UF, K, 16V	10	
	C9163	F1J0J475A035	C 4.7UF, K, 16V	1	
	C9164,65	F1G1C104A119	C 0.10UF, K, 16V	2	
	C9168	F1G1C104A119	C 0.10UF, K, 16V	1	
	C9169-96	F1G1C104A116	C 0.10UF, K, 16V	28	
	C9198-09	F1G1C104A116	C 0.10UF, K, 16V	12	
	C9210	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9211	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9212	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9213-24	F1G1C104A116	C 0.10UF, K, 16V	12	
	C9226-28	F1G1C104A116	C 0.10UF, K, 16V	3	
	C9230-36	F1G1C104A116	C 0.10UF, K, 16V	7	
	C9237	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9239-44	F1G1C104A116	C 0.10UF, K, 16V	6	
	C9245	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9246	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9247	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9248-50	F1G1C104A116	C 0.10UF, K, 16V	3	
	C9469	F1G1C104A119	C 0.10UF, K, 16V	1	
	C9535-50	F1G1C104A116	C 0.10UF, K, 16V	16	
	C9551-53	F1J1A106A043	C 0.010UF, K, 10V	3	
	C9823	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C9825	F1G1H101A731	C 100PF, K, 50V	1	
	C9832	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9837	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9840	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9841,42	F1G1C104A119	C 0.10UF, K, 16V	2	
	C9844	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9845,46	F1G1C104A119	C 0.10UF, K, 16V	2	
	C9858	ECJ3YB1E106M	C 10 UF, K, 25V	1	
	C9859	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9860	F1J0J475A035	C 4.7UF, K, 16V	1	
	C9861,62	F1H1E104A129	E 0.1UF, 25V	2	
	C9863	F1J0J475A035	C 4.7UF, K, 16V	1	
	C9864	F1H1E104A129	E 0.1UF, 25V	1	
	C9865,66	ECGRL0G680ER	C 68PF, J, 4V	2	
	C9867-72	ECJ3YB1E106M	C 10 UF, K, 25V	6	
	C9873	ECGRL0G680ER	C 68PF, J, 4V	1	
	C9874	F1G1H680A731	E 68UF, 50V	1	
	C9877	F1G1H680A731	E 68UF, 50V	1	
	C9878	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9879	F1G1C153A116	C 0.015UF, K, 16V	1	
	C9880	F1G1A563A032	E 0.56UF, 10V	1	
	C9881	F1G1E103A123	C 0.010UF, K, 16V	1	
	C9882	F1G1C822A116	C 8200UF, K, 16V	1	PAVCA
	C9883	F1G1H101A731	C 100PF, K, 50V	1	
	C9884,85	F1G1H102A730	E 1000UF, 50V	2	
	C9886,87	F1H1E104A129	E 0.1UF, 25V	2	
	C9888	F1G1H361A731	E 360UF, 50V	1	PAVCA
	C9927-48	F1G1C104A116	C 0.10UF, K, 16V	22	
	C9951	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9961	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9966	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9971	F1G1H180A731	E 18UF, 50V	1	
	C9972	F1G1H150A731	E 15UF, 50V	1	
	C14352	F1J1C1050030	C 1UF, Z, 16V	1	
	C14356	F1J1C1050030	C 1UF, Z, 16V	1	
	C14360,61	F1L2E104A028	E 1000UF, 25V	2	PAVCA
	C14364	F1J1C1050030	C 1UF, Z, 16V	1	
	C14368	F1J1C1050030	C 1UF, Z, 16V	1	
	C14373	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14901	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14902	F1J1C1050030	C 1UF, Z, 16V	1	
	C14904	F1J1C1050030	C 1UF, Z, 16V	1	
	C14906	F1J1C1050030	C 1UF, Z, 16V	1	
	C14908	F1J1C1050030	C 1UF, Z, 16V	1	
	C14910	F1J1C1050030	C 1UF, Z, 16V	1	
	C14912	F1J1C1050030	C 1UF, Z, 16V	1	
	C14920-23	F1L2E104A028	E 1000UF, 25V	4	PAVCA
	C14928	F1L2E104A028	E 1000UF, 25V	1	PAVCA
	C14930	F1L2E104A028	E 1000UF, 25V	1	PAVCA
	C14931	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14932	F1L2E104A028	E 1000UF, 25V	1	PAVCA
	C14934	F1L2E104A028	E 1000UF, 25V	1	PAVCA
	C14936-39	F1J1H471A836	C 470UF, 50V	4	PAVCA
	C14940	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14941,42	F1J1H471A836	C 470UF, 50V	2	PAVCA
	C14943	F1L1E4750012	C 4.7UF, 25V	1	
	C14944	F1J1H102A836	C 1000UF, 50V	1	
	C14945	F1J1H101A836	C 100PF, K, 50V	1	PAVCA
	C14950	F1J1H471A836	C 470UF, 50V	1	PAVCA
	C14952	F1J1C1050030	C 1UF, Z, 16V	1	
	C14955	F1J1C1050030	C 1UF, Z, 16V	1	
	C14957,58	F1J1C1050030	C 1UF, Z, 16V	2	
	C14961	F1J1C1050030	C 1UF, Z, 16V	1	
	C14963	F1J1C1050030	C 1UF, Z, 16V	1	
	C14969	F1J1H104A835	C 0.10UF, 50V	1	
	C14970-72	F1J1H471A836	C 470UF, 50V	3	PAVCA
	C14973	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14974,75	F1L2E104A028	E 1000UF, 25V	2	PAVCA
	C14976	F1J1H102A834	C 1000UF, 50V	1	PAVCA
	C14981	F1J1H471A836	C 470UF, 50V	1	PAVCA
	C14982-85	F1L2E104A028	E 1000UF, 25V	4	PAVCA
	C14987,88	F1J1H104A835	C 0.10UF, 50V	2	
	C14989	F1J1H471A836	C 470UF, 50V	1	PAVCA
	C14990	F1J1H104A835	C 0.10UF, 50V	1	
	C14992	F1H1C105A008	C 1UF, K, 16V	1	
	C16003	F1L2J562A022	C 5600UF, K,6.3V	1	
	C16011	F2A2T251A004	E 250UF, 220V	1	
	C16013	F0C2E225A230	E 0.022UF, 250V	1	
	C16014	F2A2T251A004	E 250UF, 220V	1	
	C16016	F2A2T251A004	E 250UF, 220V	1	
	C16023	F1L2J562A022	C 5600UF, K,6.3V	1	
	C16042	F1H1H392A970	C 3900PF, K, 50V	1	
	C16071	F1L2J1020001	C 1000UF, K,6.3V	1	
	C16092	F1L2J1020001	C 1000UF, K,6.3V	1	
	C16131	F1L1E4750012	C 4.7UF, 25V	1	
	C16133	F1L1E4750012	C 4.7UF, 25V	1	
	C16135	F1K1E105A029	C 1UF, Z, 25V	1	
	C16151	F1K1E105A029	C 1UF, Z, 25V	1	
	C16152-54	F1L1E4750012	C 4.7UF, 25V	3	
	C16192	F1L1E4750012	C 4.7UF, 25V	1	
	C16194,95	F1L1E4750012	C 4.7UF, 25V	2	
	C16197	F1L1E4750012	C 4.7UF, 25V	1	
	C16201-03	F0C2E405A230	E 0.040UF, 250V	3	PAVCA
	C16241	EEUFC1A101	E 100UF, 10V	1	
	C16242	F1H1C105A008	C 1UF, K, 16V	1	
	C16243	F1J1H103A834	C 0.01UF, K, 50V	1	
	C16251	F1H1C105A008	C 1UF, K, 16V	1	
	C16252	F1K1E105A029	C 1UF, Z, 25V	1	
	C16262-70	F2A2A471A072	E 470UF, 100V	9	
	C16272	F2A1E471A487	E 470UF, 25V	1	
	C16280	F1K1E105A029	C 1UF, Z, 25V	1	
	C16284-87	ECJ1XB1H104K	C 10PF, J, 50V	4	
	C16301	F2A1E470A454	E 47UF, 25V	1	
	C16302	F1H1H471A219	E 470UF, 50V	1	
	C16310	F2A2T251A004	E 250UF, 220V	1	
	C16311	F1H1A1050032	E 10UF, 50V	1	
	C16312	F1H1H472A970	C 4700PF, K, 50V	1	
	C16313	F1H1C105A008	C 1UF, K, 16V	1	
	C16321,22	F1L2E224A028	E 2200UF, 25V	2	
	C16323	F2A1E470A454	E 47UF, 25V	1	
	C16324	F2A1E471A487	E 470UF, 25V	1	
	C16325,26	F1L1E4750012	C 4.7UF, 25V	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C16327	F0C2E225A230	E 0.022UF, 250V	1	
	C16328,29	F2A2D221A022	E 220UF, 200V	2	
	C16336	F1H1H102A970	C 1000PF, K, 50V	1	
	C16337	ECJ1XB1H104K	C 10PF, J, 50V	1	
	C16403	F1L2J562A022	C 5600UF, K,6.3V	1	
	C16413,14	F2A2T251A004	E 250UF, 220V	2	
	C16416	F0C2E225A230	E 0.022UF, 250V	1	
	C16418,19	F2A2T251A004	E 250UF, 220V	2	
	C16424	F1L2J562A022	C 5600UF, K,6.3V	1	
	C16441,42	F1H1H392A970	C 3900PF, K, 50V	2	
	C16471	F1L2J1020001	C 1000UF, K,6.3V	1	
	C16472	F1K1E105A029	C 1UF, Z, 25V	1	
	C16480	F1J1H104A835	C 0.10UF, 50V	1	
	C16491	F1L2J1020001	C 1000UF, K,6.3V	1	
	C16502	F1L1E4750012	C 4.7UF, 25V	1	
	C16504	F1L1E4750012	C 4.7UF, 25V	1	
	C16505	F1K1E105A029	C 1UF, Z, 25V	1	
	C16521	F1K1E105A029	C 1UF, Z, 25V	1	
	C16522	F1L1E4750012	C 4.7UF, 25V	1	
	C16524,25	F1L1E4750012	C 4.7UF, 25V	2	
	C16562	F1H1C105A008	C 1UF, K, 16V	1	
	C16563	EEUFC1A101	E 100UF, 10V	1	
	C16564	F1H1C105A008	C 1UF, K, 16V	1	
	C16565,66	F1J1H103A834	C 0.01UF, K, 50V	2	
	C16581	F1K1E105A029	C 1UF, Z, 25V	1	
	C16582	F1H1C105A008	C 1UF, K, 16V	1	
	C16593	F1J1H102A836	C 1000UF, 50V	1	
	C16603,04	F1K2J102A014	C 1000UF, K,6.3V	2	
	C16605,06	F1L2J562A022	C 5600UF, K,6.3V	2	
	C16608	F1H1H221A971	C 220UF, K, 50V	1	
	C16632-34	F0C2E405A230	E 0.040UF, 250V	3	PAVCA
	C16641	ECQE2105RKB	P 1UF, 250V	1	
	C16661,62	F1K2J102A014	C 1000UF, K,6.3V	2	
	C16664-66	F1J1H820A836	C 82UF, 50V	3	PAVCA
	C16691	ECA2CM101	E 100UF, 160V	1	
	C16708	F1J1H104A835	C 0.10UF, 50V	1	
	C16721	F2A1H101A493	E 100UF, 50V	1	
	C16723-25	F1L1E4750012	C 4.7UF, 25V	3	
	C16752	F1K1E105A029	C 1UF, Z, 25V	1	
	C16753	F1L1E4750012	C 4.7UF, 25V	1	
	C16755,56	F1L1E4750012	C 4.7UF, 25V	2	
	C16773	F1L1E4750012	C 4.7UF, 25V	1	
	C16775	F1L1E4750012	C 4.7UF, 25V	1	
	C16791	F2A1E221A487	E 220UF, 25V	1	
	C16795	F2A1E471A487	E 470UF, 25V	1	
	C16797	F1J1H104A835	C 0.10UF, 50V	1	
	C16798	F1L2E1040002	E 1000UF, 25V	1	
	C16806	ECA2CM101	E 100UF, 160V	1	
	C16811	ECJ3VC1H472J	C 4700PF, J, 50V	1	
	C16813	ECA2CM101	E 100UF, 160V	1	
	C16821	F1J1H104A835	C 0.10UF, 50V	1	
	C16822	F2A2G470A018	E 470UF, 400V	1	
	C16823	F1L2J562A022	C 5600UF, K,6.3V	1	
	C16832	F1J1H392A834	C 3900UF, 50V	1	
	C16842	ECA2CM101	E 100UF, 160V	1	
	C16843,44	F1J1H104A835	C 0.10UF, 50V	2	
	C16855	F1H1C105A008	C 1UF, K, 16V	1	
	C16856	F1H1A1050032	E 10UF, 50V	1	
	C16857	F1H1H472A970	C 4700PF, K, 50V	1	
	C16858	F1H1C104A143	C 0.1UF, K, 16V	1	
	C16860	F1H1A1050032	E 10UF, 50V	1	
	C16861	F1H1H472A970	C 4700PF, K, 50V	1	
	C16862	F1H1C104A143	C 0.1UF, K, 16V	1	
	C16863	F1J1H103A834	C 0.01UF, K, 50V	1	
	C16864	F1J1H104A835	C 0.10UF, 50V	1	
	C16866	F1H1A1050032	E 10UF, 50V	1	
	C16867	F1H1H472A970	C 4700PF, K, 50V	1	
	C16868	F1H1C104A143	C 0.1UF, K, 16V	1	
	C16869	F1J1H104A835	C 0.10UF, 50V	1	
	C17102	F1H1A1050032	E 10UF, 50V	1	
	C17113	F1H1A1050032	E 10UF, 50V	1	
	C17131-33	F1H1C104A143	C 0.1UF, K, 16V	3	
	C17134-45	F1L2E154A009	E 1500UF, 25V	12	PAVCA
	C17146,47	F1H1A1050032	E 10UF, 50V	2	
	C17149	F1H1A1050032	E 10UF, 50V	1	
	C17151	F1H1A1050032	E 10UF, 50V	1	
	C17158-60	F1H1C104A143	C 0.1UF, K, 16V	3	
	C17201	F1H1A1050032	E 10UF, 50V	1	
	C17207,08	F1H1A1050032	E 10UF, 50V	2	
	C17213	F1H1A1050032	E 10UF, 50V	1	
	C17221-24	F1H1C104A143	C 0.1UF, K, 16V	4	
	C17226-35	F1L2E154A009	E 1500UF, 25V	10	PAVCA
	C17241	F1H1A1050032	E 10UF, 50V	1	
	C17307	F1H1A1050032	E 10UF, 50V	1	
	C17310	F1H1A1050032	E 10UF, 50V	1	
	C17313-16	F1H1C104A143	C 0.1UF, K, 16V	4	
	C17317	F1K2A105A006	C 1UF, 100V	1	
	C17318-21	F1L2E154A009	E 1500UF, 25V	4	PAVCA
	C17323-26	F1L2E154A009	E 1500UF, 25V	4	PAVCA
	C17327,28	F1H1A1050032	E 10UF, 50V	2	
	CB1-15	K1MN68BA0052	68P CONNECTOR	15	
	D3	K1KA14B00129	14P CONNECTOR	1	
	D5	K1KB31BA0064	31P CONNECTOR	1	
	D6	K1KA20AA0009	20P CONNECTOR	1	
	D20	K1MN35BA0266	35P CONNECTOR	1	PAVCA
	D25	K1KA13B00069	13P CONNECTOR	1	
	D31-33	K1MN68BA0266	68P CONNECTOR	3	
	D851,52	MA2J11100L	DIODE	2	
	D857	MA2J11100L	DIODE	1	
	D859	B0JCME000037	DIODE	1	
	D860	MAZ81100ML	ZENER DIODE	1	
	D861	MA2J11100L	DIODE	1	
	D862	MAZ80330LL	ZENER DIODE	1	
	D1107	MA704A	DIODE	1	
	D1112	MA2J11100L	DIODE	1	
	D1114,15	MA2J11100L	DIODE	2	
	D2301	MA2J11100L	DIODE	1	
	D2512	MA8043LTX	ZENER DIODE	1	
	D2520A	LN1271RAL-TR	LED	1	
	D3005	K7AAAY000003	PHOTO LINK	1	
	D3048	MA8140M	ZENER DIODE	1	
	D3051-54	MA8140M	ZENER DIODE	4	
	D3063-73	MA8140M	ZENER DIODE	11	
	D3076-80	MA8140M	ZENER DIODE	5	
	D3085-89	MA8140M	ZENER DIODE	5	
	D3701,02	MA8140M	ZENER DIODE	2	
	D3709,10	MAZ80510LL	ZENER DIODE	2	
	D3711	MA8140M	ZENER DIODE	1	
	D3801-06	EZAEG2A50AX	DIODE	6	
	D3807,08	EZJZ0V80008B	VARISTOR	2	
	D3809,10	EZAEG2A50AX	DIODE	2	
	D3811	EZJZ0V80008B	VARISTOR	1	
	D3813,14	B0HCMM000014	DIODE	2	
	D3815	EZJZ0V120JA	VARISTOR	1	PAVCA
	D4000	MA2J11100L	DIODE	1	
	D4002	MA2J11100L	DIODE	1	
	D4004,05	MA2J11100L	DIODE	2	
	D4006	MA3X78900L	ZENER DIODE	1	
	D4007	B0BC03900015	ZENER DIODE	1	
	D4009	MA2J11100L	DIODE	1	
	D4010	MA22D3900L	DIODE	1	
	D4502-12	EZAEG2A50AX	DIODE	11	
	D4513	MA3056MTX	ZENER DIODE	1	
	D4514	EZAEG2A50AX	DIODE	1	
	D4515	MA3056MTX	ZENER DIODE	1	
	D4516-23	EZAEG2A50AX	DIODE	8	
	D4541,42	MA2J11100L	DIODE	2	
	D5400	B0JCME000037	DIODE	1	
	D5401,02	B0BC4R700007	ZENER DIODE	2	
	D5403	B0JCME000037	DIODE	1	
	D5404,05	B0BC4R700007	ZENER DIODE	2	
	D5521,22	MA3X152A0L	DIODE	2	
	D5571	B0BC6R600005	ZENER DIODE	1	
	D5573	B0BC01100001	ZENER DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D5601,02	MA22D3900L	DIODE	2	
	D5603,04	B0JCDD000002	DIODE	2	
	D5605	MA22D3900L	DIODE	1	
	D5606	B0JCDD000002	DIODE	1	
	D5613-15	MA2J11100L	DIODE	3	
	D5616	MA2J72800L	ZENER DIODE	1	
	D5692	MA8056LTX	ZENER DIODE	1	
	D9024-26	B0JCCE000008	DIODE	3	
	D9027-29	B0BC3R3A0273	ZENER DIODE	3	
	D9110	B0JCGD000002	DIODE	1	
	D9807,08	B0JCCE000008	DIODE	2	
	D9812	MA22D3900L	DIODE	1	
	D9813-15	B0JCGD000002	DIODE	3	
	D9816,17	MA22D3900L	DIODE	2	
	D14903-08	B0HCMM000013	DIODE	6	
	D14909	MA3X152A0L	DIODE	1	
	D14910	MA2J11100L	DIODE	1	
	D14911,12	B0HCMM000013	DIODE	2	
	D14953-58	B0HCMM000013	DIODE	6	
	D14961	MA8056H	ZENER DIODE	1	
	D14974	MA3X152A0L	DIODE	1	
	D14975,76	MA2J11100L	DIODE	2	
	D14977,78	B0HCMM000013	DIODE	2	
	D14979	MA2J11100L	DIODE	1	
	D16001,02	B0FBCN000005	DIODE	2	
	D16021,22	MA3DF30000LW	ZENER DIODE	2	
	D16032	MA2J11100L	DIODE	1	
	D16041	MA3DF46000LW	ZENER DIODE	1	
	D16043	MA3DF46000LW	ZENER DIODE	1	
	D16050	B0ECKP000047	DIODE	1	
	D16051	B0FBCN000005	DIODE	1	
	D16053	B0FBCN000005	DIODE	1	
	D16102	MA22D3900L	DIODE	1	
	D16104	MA22D3900L	DIODE	1	
	D16106	MA22D3900L	DIODE	1	
	D16131	B0ECHP000003	DIODE	1	
	D16132	B0ECKP000047	DIODE	1	
	D16151	B0ECHP000003	DIODE	1	
	D16152,53	B0ECKP000047	DIODE	2	
	D16191,92	B0ECKP000047	DIODE	2	
	D16253	LNJ301MPUJA	LED	1	
	D16255	MA2J11100L	DIODE	1	
	D16280	MA2J11100L	DIODE	1	
	D16281	MAZ80510LL	ZENER DIODE	1	
	D16282	MAZ80680ML	ZENER DIODE	1	
	D16284,85	MA3X152A0L	DIODE	2	
	D16300	B0ECKP000047	DIODE	1	
	D16301	MA3X152A0L	DIODE	1	
	D16302	MA2J11100L	DIODE	1	
	D16311	MAZ81500ML	ZENER DIODE	1	
	D16313	B0ECKP000047	DIODE	1	
	D16321	B0ECKP000047	DIODE	1	
	D16324	MA3X152A0L	DIODE	1	
	D16331	B0ECHP000003	DIODE	1	
	D16335,36	B0ECLM000006	DIODE	2	
	D16401,02	B0FBCN000005	DIODE	2	
	D16407,08	MA22D3900L	DIODE	2	
	D16421,22	MA3DF40000LW	ZENER DIODE	2	
	D16451	B0ECKP000047	DIODE	1	
	D16461,62	MA3DF46000LW	ZENER DIODE	2	
	D16466	MA2J11100L	DIODE	1	
	D16473	MA3X152A0L	DIODE	1	
	D16475	MAZ80510LL	ZENER DIODE	1	
	D16477	MA2J11100L	DIODE	1	
	D16478	B0HCKS000002	DIODE	1	
	D16480	MA2J11100L	DIODE	1	
	D16481,82	B0FBCN000005	DIODE	2	
	D16497	B0ECKP000047	DIODE	1	
	D16501	B0ECHP000003	DIODE	1	
	D16503	B0ECKP000047	DIODE	1	
	D16521	B0ECHP000003	DIODE	1	
	D16522,23	B0ECKP000047	DIODE	2	
	D16583	LNJ301MPUJA	LED	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D16585	MA2J11100L	DIODE	1	
	D16602	MAZ81500ML	ZENER DIODE	1	
	D16604	MA2J11100L	DIODE	1	
	D16605	MAZ80510LL	ZENER DIODE	1	
	D16606	B0ECKM000038	DIODE	1	
	D16607	MA2J11100L	DIODE	1	
	D16608	MA8120M	ZENER DIODE	1	
	D16609,10	MA2J11100L	DIODE	2	
	D16618,19	B0ECKP000047	DIODE	2	
	D16631-33	MAZ81500ML	ZENER DIODE	3	
	D16642	B0HCKS000002	DIODE	1	
	D16643	MA2J11100L	DIODE	1	
	D16645	MA2J11100L	DIODE	1	
	D16659	B0HCMM000014	DIODE	1	
	D16661	MA2J11100L	DIODE	1	
	D16662-64	MAZ81500ML	ZENER DIODE	3	
	D16665	MAZ80510LL	ZENER DIODE	1	
	D16667	MA2J11100L	DIODE	1	
	D16668	MA3X152A0L	DIODE	1	
	D16669	MA2J11100L	DIODE	1	
	D16671	MA2J11100L	DIODE	1	
	D16710	MAZ81500ML	ZENER DIODE	1	
	D16711	EC8FS6	DIODE	1	
	D16712	MAZ81500ML	ZENER DIODE	1	
	D16713	EC8FS6	DIODE	1	
	D16714	MAZ81500ML	ZENER DIODE	1	
	D16715	EC8FS6	DIODE	1	
	D16717	MA8330M	ZENER DIODE	1	
	D16718	MA2J11100L	DIODE	1	
	D16719,20	B0ECKP000047	DIODE	2	
	D16721	B0HCKS000002	DIODE	1	
	D16722	MA2J11100L	DIODE	1	
	D16725	MA2J11100L	DIODE	1	
	D16761,62	MA2J11100L	DIODE	2	
	D16763	B0ECKP000047	DIODE	1	
	D16764	B0HCKS000002	DIODE	1	
	D16765,66	B0ECKP000047	DIODE	2	
	D16771	MAZ80510LL	ZENER DIODE	1	
	D16791	MA8200M	ZENER DIODE	1	
	D16792	MA2J11100L	DIODE	1	
	D16793	B0HCKS000002	DIODE	1	
	D16794	MA2J11100L	DIODE	1	
	D16820	MA3X152A0L	DIODE	1	
	D16821	MA8200M	ZENER DIODE	1	
	D16822	MA2J11100L	DIODE	1	
	D16824,25	MA8330M	ZENER DIODE	2	
	D16830	MA8056H	ZENER DIODE	1	
	D16836	MAZ81500ML	ZENER DIODE	1	
	D16837	MA2J11100L	DIODE	1	
	D16838	B0BC027A0234	ZENER DIODE	1	
	D16839	B0ECKP000047	DIODE	1	
	D16859,60	B0HCKS000002	DIODE	2	
	D16861,62	MA8330M	ZENER DIODE	2	
	D16871	MA8200M	ZENER DIODE	1	
	D16872	MA2J11100L	DIODE	1	
	D16873	MA8200M	ZENER DIODE	1	
	D16874	MAZ80510LL	ZENER DIODE	1	
	D16875	MA2J11100L	DIODE	1	
	FL3010,11	J0MAB0000140	LC FILTER	2	
	FL3710-12	J0ZZA0000091	FILTER	3	PAVCA
	FL4000	J0HAAB000036	LC FILTER	1	
	FL4002-04	J0HAAB000036	LC FILTER	3	
	FL4206-11	J0JAD0000028	CHIP INDUCTOR	6	
	FL8052	J0HAAB000036	LC FILTER	1	
	FL8500,01	J0HAAA000013	LC FILTER	2	
	FL9803	F1J1E104A148	C 0.10UF, Z, 25V	1	
	FL9805,06	F1J1E104A148	C 0.10UF, Z, 25V	2	
	FL17101	J0HABH000013	LC FILTER	1	
	FL17201,02	J0HABH000013	LC FILTER	2	
	FL17301	J0HABH000013	LC FILTER	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	G51	K1KA10BA0062	10P CONNECTOR	1	
	GH10	K1FA119E0013	CONNECTOR	1	
	GH11	K1KA30AA0009	30P CONNECTOR	1	
	GS52	K1KA14BA0062	14P CONNECTOR	1	PAVCA
	IC850	C0DBAZF00003	IC	1	
	IC1100	MNZSFG3GP53	IC	1	
	IC1101	TVRP920S	IC	1	PAVCA
	IC2008	C0CBCBE00001	IC	1	
	IC2106	C1AB00002908	IC	1	
	IC2107	C0DBFFD00003	IC	1	
	IC2301	C1AB00002875	IC	1	
	IC3001	C1AB00002855	IC	1	
	IC3017	C0EBM0000026	IC	1	
	IC3801	C1AB00002835	IC	1	PAVCA
	IC3802	TVRP820S	IC	1	PAVCA
	IC4000	C1AB00002877	IC	1	
	IC4013	C0JBAZ002060	IC	1	
	IC4200	C0ZBZ0001568	IC	1	PAVCA
	IC4510	C1AB00002901	IC	1	
	IC4511	C0CBCBE00001	IC	1	
	IC4512,13	C0DBGYY00477	IC	2	
	IC4800	C1ZBZ0003775	IC	1	
	IC5400,01	C0DBAYY00183	IC	2	
	IC5600	C0DBAYY00273	IC	1	
	IC5601	C0DBAYY00274	IC	1	
	IC5606	C0EBF0000354	IC	1	
	IC8001	MN2WS0047	IC	1	PAVCA
	IC8002,03	C3ABSY000014	IC	2	
	IC8004	C0ZBZ0001030	IC	1	
	IC8300	MN884350	IC	1	PAVCA
	IC8502	TVRP753S	IC	1	PAVCA
	IC8503	TVRP756S	IC	1	PAVCA
	IC9001	TVRP923S	IC	1	PAVCA
	IC9002	C1ZBZ0003577	IC	1	
	IC9003	MNZSFG4GPH1	IC	1	
	IC9011	C0EBF0000431	IC	1	
	IC9013	C0JBAZ002060	IC	1	
	IC9019	C0JBAZ001120	IC	1	
	IC9300	MN84526	IC	1	
	IC9301	C3ABQJ000055	IC	1	
	IC9303	TVRP924S	IC	1	PAVCA
	IC9400	MN84526	IC	1	
	IC9401	C3ABQJ000055	IC	1	
	IC9500	C1ZBZ0003760	IC	1	PAVCA
	IC9802,03	C0JBAZ001120	IC	2	
	IC9805	C0DBAYY00274	IC	1	
	IC9806	C0DBAYY00273	IC	1	
	IC14901-08	AN16182A-VT	IC	8	PAVCA
	IC14951-58	AN16182A-VT	IC	8	PAVCA
	IC14961,62	C0JBAZ000994	IC	2	
	IC14963	C0JBAE000321	IC	1	
	IC14964	C0JBAA000174	IC	1	
	IC14965	C0JBAE000321	IC	1	
	IC16131	C0ZBZ0000895	IC	1	
	IC16151	C0ZBZ0001324	IC	1	
	IC16191	C0ZBZ0000895	IC	1	
	IC16241	C0JBAZ002811	IC	1	
	IC16251	NJM2903V	IC	1	
	IC16301	MIP9L02MBS	IC	1	
	IC16302	C0CBALC00012	IC	1	
	IC16303	C0JBAC000363	IC	1	
	IC16471	C0DBEKA00003	IC	1	
	IC16472	C0JBAA000377	IC	1	
	IC16501	C0ZBZ0000895	IC	1	
	IC16521	C0ZBZ0001324	IC	1	
	IC16561-63	C0JBAZ002811	IC	3	
	IC16564	C0JBAB000715	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	IC16581	NJM2903V	IC	1	
	IC16724,25	C0CBADC00072	IC	2	
	IC16752	C0ZBZ0001324	IC	1	
	IC16772	C0ZBZ0001325	IC	1	
	IC16784	MIP9L02MBS	IC	1	
	IC16786	MIP9L02MBS	IC	1	
	IC16787	C0DBEYY00078	IC	1	
	IC16788	MIP9L02MBS	IC	1	
	IC16789	C0DBEYY00078	IC	1	
	IC16791	EHMDD9878	LINEAR IC	1	PAVCA
	IC16792	C0JBAA000377	IC	1	
	IC16801	C0DBEYY00078	IC	1	
	IC17101-06	C0JBAZ001120	IC	6	
	IC17201-04	C0JBAZ001120	IC	4	
	IC17301-04	C0JBAZ001120	IC	4	
	JA1	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA1 01	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA1	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	JA2	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA2 02	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA2	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	JA3	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA3 03	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA3	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	JA4	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA4 04	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA4	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	JA5	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA5 05	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JA5	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	JA6-30	D0GDR00Z0002	M 0 OHM, 1/10W	25	
	JA101-13	ERJ8GEY0R00	M 0 OHM, 1/8W	13	
	JK3000	K1U932A00001	CONNECTOR UNIT	1	PAVCA
	JK3001	K1FB315A0006	CONNECTOR	1	
	JK3701	K4AK13B00002	TERMINAL BOARD	1	PAVCA
	JK4500,01	K1FY119D0003	CONNECTOR	2	PAVCA
	JK7701	K1NA12B00004	CONNECTOR	1	
	JS2088	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JS2300	D0YAR0000007	M 0 OHM 1/4W	1	
	JS3051-56	D0GDR00Z0002	M 0 OHM, 1/10W	6	
	JS4010	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JS4015	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	JS4018	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	JS7701	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	K1	K1KY12B00001	12P CONNECTOR	1	
	L852	G0C101KA0167	PEAKING COIL	1	
	L1100	J0JYC0000068	CHIP INDUCTOR	1	
	L2029	J0JCC0000059	CHIP INDUCTOR	1	
	L2038	J0JYC0000068	CHIP INDUCTOR	1	
	L2041	J0JYC0000068	CHIP INDUCTOR	1	
	L2202	J0JHC0000078	CHIP INDUCTOR	1	
	L2300	G1C220MA0291	INDUCTION COIL	1	
	L2302	G1C220MA0291	INDUCTION COIL	1	
	L2304	G1C220MA0291	INDUCTION COIL	1	
	L2306	G1C220MA0291	INDUCTION COIL	1	
	L3000,01	J0JYC0000068	CHIP INDUCTOR	2	
	L3308,09	J0JCC0000269	CHIP INDUCTOR	2	PAVCA
	L3512	J0JHC0000042	CHIP INDUCTOR	1	
	L3801	J0JHC0000078	CHIP INDUCTOR	1	
	L3804,05	J0JHC0000078	CHIP INDUCTOR	2	
	L4000	G1C470MA0291	INDUCTION COIL	1	PAVCA
	L4001	G1C100MA0072	INDUCTION COIL	1	
	L4002	J0JYC0000068	CHIP INDUCTOR	1	
	L4201,02	J0JHC0000078	CHIP INDUCTOR	2	
	L4500-07	J0JHC0000078	CHIP INDUCTOR	8	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L4510,11	J0JHC0000078	CHIP INDUCTOR	2	
	L4512,13	J0JCC0000241	CHIP INDUCTOR	2	
	L4514-19	J0JYC0000068	CHIP INDUCTOR	6	
	L4600	J0JHC0000045	CHIP INDUCTOR	1	
	L5401	G1C330M00027	INDUCTION COIL	1	PAVCA
	L5405	G1C330M00027	INDUCTION COIL	1	PAVCA
	L5600,01	G1C2R2Z00007	INDUCTION COIL	2	
	L5602	G1C4R7Z00014	INDUCTION COIL	1	
	L5604	G1C100MA0203	INDUCTION COIL	1	
	L5605	J0JCC0000241	CHIP INDUCTOR	1	
	L5606	G1C100MA0203	INDUCTION COIL	1	
	L8001-05	J0JHC0000045	CHIP INDUCTOR	5	
	L8006	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	L8007-10	J0JHC0000045	CHIP INDUCTOR	4	
	L8301-03	J0JHC0000045	CHIP INDUCTOR	3	
	L8304,05	G1CR22JA0020	INDUCTION COIL	2	
	L8306	G1CR39JA0020	INDUCTION COIL	1	PAVCA
	L8307-10	J0JHC0000045	CHIP INDUCTOR	4	
	L8311,12	G1CR39JA0020	INDUCTION COIL	2	PAVCA
	L8500	J0JCC0000241	CHIP INDUCTOR	1	
	L8502	J0JCC0000143	CHIP INDUCTOR	1	
	L8507	J0JHC0000045	CHIP INDUCTOR	1	
	L9000-07	J0JHC0000078	CHIP INDUCTOR	8	
	L9800	G1C2R2Z00007	INDUCTION COIL	1	
	L9801	G1C1R5Z00006	INDUCTION COIL	1	
	L9802	G1C2R2Z00007	INDUCTION COIL	1	
	L16001-05	G0C1R6KA0119	PEAKING COIL	5	
	L16011-14	G0C1R4KA0118	PEAKING COIL	4	
	L16102	J0JJC0000015	CHIP INDUCTOR	1	
	L16103	G0ZZ00002183	PEAKING COIL	1	
	L16104	J0JJC0000015	CHIP INDUCTOR	1	
	L16106	J0JJC0000015	CHIP INDUCTOR	1	
	L16221	G0ZZ00002183	PEAKING COIL	1	
	L16262	G0ZZ00002183	PEAKING COIL	1	
	L16271	G0ZZ00002183	PEAKING COIL	1	
	L16301	J0JHC0000031	CHIP INDUCTOR	1	
	L16398,99	J0JJC0000015	CHIP INDUCTOR	2	
	L16402-06	G0C1R6KA0119	PEAKING COIL	5	
	L16412-16	G0C1R6KA0119	PEAKING COIL	5	
	L16472	G0ZZ00002183	PEAKING COIL	1	
	L16591	G0ZZ00002183	PEAKING COIL	1	
	L16697	G0C102KA0187	PEAKING COIL	1	
	L16698	G0C681KA0187	PEAKING COIL	1	
	L16699	G0C331KA0187	PEAKING COIL	1	
	L16801	G0ZZ00002183	PEAKING COIL	1	
	PA5600	K5H5022A0023	FUSE	1	
	PA9800	K5H4022A0031	FUSE	1	
	PA9900	K5H5022A0031	FUSE	1	PAVCA
	PB30	K1KA05AA0193	5P CONNECTOR	1	
	PB31,32	K1KA03AA0192	3P CONNECTOR	2	
	PB37	K1KA03AA0192	3P CONNECTOR	1	
	PC2501	B3JB00000046	IC	1	PAVCA
	PC14951,52	B3PBA0000457	IC	2	
	PC14953	B3PBA0000456	IC	1	
	PC16480	B3PBA0000223	IC	1	
	PC16601	B3PBA0000223	IC	1	
	PC16602	B3PBA0000443	IC	1	
	PC16603	B3PBA0000223	IC	1	
	PC16705	B3PBA0000456	IC	1	
	PC16710	B3PBA0000223	IC	1	
	PC16896,97	B3PBA0000223	IC	2	
⚠	PCB	TNPH0721ACS	CIRCUIT BOARD A	1	PAVCA
⚠	PCB	TNPA4243AHS	CIRCUIT BOARD PB	1	PAVCA
⚠	PCB	ETX2MM704MGA	CIRCUIT BOARD P (AC)	1	PAVCA
⚠	PCB	ETX2MM704MGL	CIRCUIT BOARD P (MAIN)	1	PAVCA
⚠	PCB	TXNC11RJTU	CIRCUIT BOARD C1	1	PAVCA
⚠	PCB	TXNC21RJTU	CIRCUIT BOARD C2	1	PAVCA
⚠	PCB	TXNC31RJTU	CIRCUIT BOARD C3	1	PAVCA
⚠	PCB	TNPA4439AJS	CIRCUIT BOARD D	1	PAVCA
⚠	PCB	TXNSC1RJTUS	CIRCUIT BOARD SC	1	PAVCA
⚠	PCB	TXNSD1RJTU	CIRCUIT BOARD SD	1	PAVCA
⚠	PCB	TXNSS1RJTU	CIRCUIT BOARD SS	1	PAVCA
⚠	PCB	TNPA4405S	CIRCUIT BOARD SS2	1	PAVCA
⚠	PCB	TXNSU1RJTU	CIRCUIT BOARD SU	1	PAVCA
⚠	PCB	TNPA4502S	CIRCUIT BOARD K	1	PAVCA
⚠	PCB	TNPA4499S	CIRCUIT BOARD S	1	PAVCA
⚠	PCB	TNPA4503S	CIRCUIT BOARD G	1	PAVCA
⚠	PCB	TNPA4506S	CIRCUIT BOARD GH	1	PAVCA
⚠	PCB	TNPA4504S	CIRCUIT BOARD GS	1	PAVCA
	Q2041,42	2SD0601ARL	TRANSISTOR	2	
	Q2301	2SB0709ARL	TRANSISTOR	1	
	Q2510,11	2SD0601ARL	TRANSISTOR	2	
	Q3123,24	2SD0601ARL	TRANSISTOR	2	
	Q3125	2SB0709ARL	TRANSISTOR	1	
	Q3801,02	2SD0601ARL	TRANSISTOR	2	
	Q3804	2SD0601ARL	TRANSISTOR	1	
	Q4014,15	2SD0601ARL	TRANSISTOR	2	
	Q4016	2SK3065T100	FET	1	
	Q4017	2SD0601ARL	TRANSISTOR	1	
	Q4502,03	2SD0601ARL	TRANSISTOR	2	
	Q4514-17	2SB0709ARL	TRANSISTOR	4	
	Q4522,23	2SD0601ARL	TRANSISTOR	2	
	Q4528-31	2SB0709ARL	TRANSISTOR	4	
	Q5522	2SB0709ARL	TRANSISTOR	1	
	Q5600	B1MBEDA00015	FET	1	
	Q5601,02	B1MBDDA00003	FET	2	
	Q5603,04	2SD0601ARL	TRANSISTOR	2	
	Q5684	2SB0709ARL	TRANSISTOR	1	
	Q8300	2SB0709ARL	TRANSISTOR	1	
	Q9010	2SD0601ARL	TRANSISTOR	1	
	Q9058-61	2SD0601ARL	TRANSISTOR	4	
	Q9805,06	2SD0601ARL	TRANSISTOR	2	
	Q9807	B1MBDDA00003	FET	1	
	Q9808	B1MBDDA00015	FET	1	
	Q9809	B1MBDDA00003	FET	1	
	Q16002-04	B1JAEN000002	TRANSISTOR	3	
	Q16022-24	B1JAEN000002	TRANSISTOR	3	
	Q16042	B1JAEN000003	TRANSISTOR	1	
	Q16051	B1JAEN000003	TRANSISTOR	1	
	Q16102	2SK399800L	FET	1	
	Q16104	2SK399800L	FET	1	
	Q16106	2SK399800L	FET	1	
	Q16141	B1HFPFA00001	TRANSISTOR	1	
	Q16161	B1HFPFA00001	TRANSISTOR	1	
	Q16171	B1ABRD000003	TRANSISTOR	1	
	Q16172	B1ADRD000001	TRANSISTOR	1	
	Q16181	B1ABRD000003	TRANSISTOR	1	
	Q16182	B1ADRD000001	TRANSISTOR	1	
	Q16191	B1HFPFA00001	TRANSISTOR	1	
	Q16251	2SD0601ARL	TRANSISTOR	1	
	Q16280	2SD0601ARL	TRANSISTOR	1	
	Q16301	B1CBGD000001	FET	1	
	Q16302	2SK3065T100	FET	1	
	Q16304	2SB0709ARL	TRANSISTOR	1	
	Q16331	B1CERL000012	FET	1	
	Q16335	B1CERL000012	FET	1	
	Q16339	2SK399500L	FET	1	
	Q16401	B1JAEN000002	TRANSISTOR	1	
	Q16403,04	B1JAEN000002	TRANSISTOR	2	
	Q16421	B1JAEP000002	TRANSISTOR	1	
	Q16423,24	B1JAEP000002	TRANSISTOR	2	
	Q16441,42	B1JAEN000003	TRANSISTOR	2	
	Q16452	B1JAEP000003	TRANSISTOR	1	
	Q16471	B1ABCF000231	TRANSISTOR	1	
	Q16501	B1HFPFA00001	TRANSISTOR	1	
	Q16521	B1HFPFA00001	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	Q16531	B1ABRD000003	TRANSISTOR	1	
	Q16532	B1ADRD000001	TRANSISTOR	1	
	Q16551	B1ABRD000003	TRANSISTOR	1	
	Q16552	B1ADRD000001	TRANSISTOR	1	
	Q16581	B1ABCF000231	TRANSISTOR	1	
	Q16601	B1DEET000002	FET	1	
	Q16602	2SD0601ARL	TRANSISTOR	1	
	Q16603	2SB0709ARL	TRANSISTOR	1	
	Q16604	B1CHPM000001	FET	1	
	Q16605	2SB0709ARL	TRANSISTOR	1	
	Q16606	2SD0601ARL	TRANSISTOR	1	
	Q16607	B1CBGD000001	FET	1	
	Q16608	B1ABCF000231	TRANSISTOR	1	
	Q16622-25	B1CFRM000008	FET	4	PAVCA
	Q16627-29	B1CFRM000008	FET	3	PAVCA
	Q16634	B1CFRM000008	FET	1	PAVCA
	Q16641-44	2SK4175000LZ	FET	4	
	Q16647-50	2SK4175000LZ	FET	4	
	Q16661	B1JAER000004	TRANSISTOR	1	PAVCA
	Q16662	2SD0601ARL	TRANSISTOR	1	
	Q16663	2SB0709ARL	TRANSISTOR	1	
	Q16664	B1HFPFA00001	TRANSISTOR	1	
	Q16665	B1ABCF000231	TRANSISTOR	1	
	Q16743	2SD0601ARL	TRANSISTOR	1	
	Q16762,63	B1ADNF000006	TRANSISTOR	2	
	Q16781	B1HFPFA00001	TRANSISTOR	1	
	Q16783	B1HFPFA00001	TRANSISTOR	1	
	Q16791	2SD0814A	TRANSISTOR	1	
	Q16794	B1ADCE000022	TRANSISTOR	1	
	Q16795	2SD0601ARL	TRANSISTOR	1	
	Q16796	2SC1473A	TRANSISTOR	1	
	Q16801,02	B1ADCN000007	TRANSISTOR	2	
	Q16805	2SC3063	TRANSISTOR	1	
	Q16806	2SC1473AEA	TRANSISTOR	1	
	Q16810-12	B1ABCF000231	TRANSISTOR	3	
	Q16814,15	B1ABCN000007	TRANSISTOR	2	
	Q16816,17	2SD0601ARL	TRANSISTOR	2	
	Q16871,72	2SB0709ARL	TRANSISTOR	2	
	Q16873	B1ABCF000231	TRANSISTOR	1	
	Q16874	B1CBGD000001	FET	1	
	Q16875,76	B1ABCF000231	TRANSISTOR	2	
	Q16879	B1ABCF000231	TRANSISTOR	1	
	R851,52	ERJ6GEYF472	M 4.7KOHM,F,1/ 10W	2	
	R857	ERJ6GEYF472	M 4.7KOHM,F,1/ 10W	1	
	R859	ERJ6ENF2001	M 2KOHM, 1/10W	1	
	R861	ERJ6GEYF472	M 4.7KOHM,F,1/ 10W	1	
	R867	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	R869	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R871	ERJ6ENF1302	M 13KOHM, 1/10W	1	
	R872	ERJ6ENF3900	M 390 OHM, 1/10W	1	
	R874	ERJ6GEYJ471	M 470 OHM,J,1/ 10W	1	
	R1112	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
	R1124,25	ERJ2GEJ473	M 47KOHM, J,0.063W	2	
	R1139	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1143	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1145	ERJ2GEJ472	M 470 OHM, J,0.063W	1	
	R1148-54	ERJ2GEJ473	M 47KOHM, J,0.063W	7	
	R1157	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1160,61	ERJ2GEJ473	M 47KOHM, J,0.063W	2	
	R1162	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R1169	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
	R1170	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
	R1171	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
	R1172	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
	R1174,75	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R1182	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
	R1183,84	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R1188	D0YAR0000007	M 0 OHM 1/4W	1	
	R1194	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
	R1196	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1198	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
	R1199	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1200,01	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
	R1203	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1205,06	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R1209,10	ERJ2GEJ473	M 47KOHM, J,0.063W	2	
	R1216	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R1218-20	ERJ2GEJ473	M 47KOHM, J,0.063W	3	
	R1221	D1BB7151A055	M7.15KOHM, 1/10W	1	
	R1223	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1236	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1237	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R1243	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R1255	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R2058	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
	R2059	ERJ2GEJ105	M 1MOHM, J,0.063W	1	
	R2060	ERJ2GEJ181	M 180 OHM, J,0.063W	1	
	R2100	D1BB2002A055	M 20KOHM, 1/10W	1	
	R2104	D1BB2001A055	M 2KOHM, 1/10W	1	
	R2110	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2111	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R2113	D1BB1203A055	M 120KOHM, 1/10W	1	
	R2114	D1BB7502A055	M 75KOHM, 1/10W	1	
	R2115-17	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
	R2138	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2150,51	D1BB2802A055	M 28KOHM, 1/10W	2	
	R2152	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R2162,63	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R2164	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R2271	EXB28V220J	RESISTOR ARRAY	1	
	R2301,02	ERJ2GEJ222	M 2.2KOHM, J,0.063W	2	
	R2305	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
	R2308	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/ 8W	1	
	R2310	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2311	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/ 8W	1	
	R2313	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/ 8W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2315	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/8W	1	
	R2325	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R2330	ERJ2GEJ392	M 3.9KOHM, J,0.063W	1	
	R2331	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
	R2513	D1BB5601A055	M 5.6KOHM, 1/10W	1	
	R2516	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
	R2517	ERJ6GEYG470V	M 47 OHM,J,1/10W	1	
	R2520	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
	R2524	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
	R2525	D1BB8200A055	M 820 OHM, 1/10W	1	PAVCA
	R2542	D0GB473JA057	M 47KOHM,J,1/16W	1	
	R2557	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
	R3058-60	ERJ2GEJ221	M 220 OHM, J,0.063W	3	
	R3061	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3062,63	ERJ2GEJ221	M 220 OHM, J,0.063W	2	
	R3064	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3065	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R3066	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3067,68	ERJ2GEJ221	M 220 OHM, J,0.063W	2	
	R3070	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R3071	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R3074,75	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R3076	ERJ6RED750	M 75 OHM, 1/10W	1	
	R3077-92	ERJ2GEJ221	M 220 OHM, J,0.063W	16	
	R3095-99	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
	R3107	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R3123,24	ERJ2GEJ182	M 1.8KOHM, J,0.063W	2	
	R3145	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R3146	ERJ2GEJ184	M 180KOHM, J,0.063W	1	
	R3147	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R3148	ERJ2GEJ184	M 180KOHM, J,0.063W	1	
	R3149,50	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
	R3151	ERJ2GEJ105	M 1MOHM, J,0.063W	1	
	R3152	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R3153	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R3154	ERJ2GEJ274	M 270KOHM, J,0.063W	1	
	R3188	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R3189	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3190-93	D0GB393JA041	M 39KOHM,J,1/16W	4	
	R3194	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3195,96	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R3198,99	D1BB75R0A055	M 75 OHM, 1/10W	2	PAVCA
	R3202	D0GB393JA041	M 39KOHM,J,1/16W	1	
	R3203	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3204	D0GB393JA041	M 39KOHM,J,1/16W	1	
	R3206	D0GB393JA041	M 39KOHM,J,1/16W	1	
	R3208,09	D1BB75R0A055	M 75 OHM, 1/10W	2	PAVCA
	R3210	D0GB393JA041	M 39KOHM,J,1/16W	1	
	R3211,12	D1BB75R0A055	M 75 OHM, 1/10W	2	PAVCA
	R3301	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R3302	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R3303	D0GDR00Z0002	M 0 OHM, 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3305	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R3306,07	ERJ6GEYF472	M 4.7KOHM,F,1/10W	2	
	R3310	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3311	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R3313	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3316	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R3318	D1BB75R0A055	M 75 OHM, 1/10W	1	PAVCA
	R3319	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R3716,17	ERJ6ENF3902	M 39KOHM, 1/10W	2	
	R3721	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R3750	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
	R3751	ERJ6ENF6651	M6.65KOHM, 1/10W	1	
	R3752	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
	R3753	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
	R3754	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
	R3756	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R3758	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
	R3801,02	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R3803	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
	R3804,05	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
	R3806	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R3807,08	ERJ2GEJ100	M 10 OHM, J,0.063W	2	
	R3809,10	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R3811	D1BB4701A055	M 4.7KOHM, 1/10W	1	
	R3812	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3814	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R3815	D0YAR0000007	M 0 OHM 1/4W	1	
	R3818	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3821	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R3822	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R3824-31	D0GA2R7JA014	M 2.7OHM, J,0.063W	8	PAVCA
	R3832	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R3840,41	ERJ2GEJ100	M 10 OHM, J,0.063W	2	
	R3845	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R3847	D0YAR0000007	M 0 OHM 1/4W	1	
	R3854	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4079	D1HG5608A002	NETWORK RESISTER	1	
	R4081	D1HG5608A002	NETWORK RESISTER	1	
	R4089-91	D1HG5608A002	NETWORK RESISTER	3	
	R4112	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
	R4113	ERJ6GEYG681	M 680 OHM,J,1/10W	1	
	R4115	D1BB1003A055	M 100KOHM, 1/10W	1	PAVCA
	R4116	D1BB3401A055	M 3.4KOHM, 1/10W	1	PAVCA
	R4117	D1BB4701A055	M 4.7KOHM, 1/10W	1	
	R4122	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R4123-33	ERJ2GEJ220	M 22 OHM, J,0.063W	11	
	R4134-36	ERJ2GEJ331	M 330 OHM, J,0.063W	3	
	R4137	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R4138-40	ERJ2GEJ220	M 22 OHM, J,0.063W	3	
	R4153	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4155	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4158	ERJ3GEYD153V	M 15KOHM,J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4162	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R4166	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4167	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4168	EXB2HV473JV	RESISTOR ARRAY	1	
	R4170,71	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R4286-88	ERJ2GEJ473	M 47KOHM, J,0.063W	3	
	R4289-94	EXB28V470JX	RESISTOR ARRAY	6	
	R4295-02	ERJ2GEJ470	M 47 OHM, J,0.063W	8	
	R4303	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R4304,05	ERJ2GEJ470	M 47 OHM, J,0.063W	2	
	R4309	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4327	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4330	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4502,03	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R4524	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R4526,27	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R4528	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4530	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4538	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4540	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4548-50	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
	R4552	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R4568	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4571,72	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
	R4587	D1BB60400001	M 604 OHM, 1/10W	1	
	R4588,89	D1BB8060A055	M 806 OHM, 1/10W	2	
	R4590,91	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R4592	D1BB8060A055	M 806 OHM, 1/10W	1	
	R4593	D1BB2201A055	M 2.2KOHM, 1/10W	1	
	R4596-98	ERJ6GEYG102	M 1KOHM,J,1/10W	3	
	R4600	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R4601	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R4603,04	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R4606	D1BB9101A055	M 9.1KOHM, 1/10W	1	
	R4609,10	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R4611	D1BB5601A055	M 5.6KOHM, 1/10W	1	
	R4613	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R4620	D0YAR0000007	M 0 OHM 1/4W	1	
	R4622	D0YAR0000007	M 0 OHM 1/4W	1	
	R4624,25	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R4626,27	D1BB2200A055	M 220 OHM, 1/10W	2	
	R4631	D1BB4990A055	M 499 OHM, 1/10W	1	
	R4634	D1BB2200A055	M 220 OHM, 1/10W	1	
	R4635	EXB28V680JX	RESISTOR ARRAY	1	
	R4636-38	ERJ2GEJ680	M 68 OHM, J,0.063W	3	
	R4639,40	EXB28V680JX	RESISTOR ARRAY	2	
	R4641	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R4643	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R4645,46	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R4648	EXB28V330J	RESISTOR ARRAY	1	
	R4649	EXB28V680JX	RESISTOR ARRAY	1	
	R4650,51	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R4652	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R4665,66	ERJ2GEJ473	M 47KOHM, J,0.063W	2	
	R4670	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R4678,79	EXB28V680JX	RESISTOR ARRAY	2	
	R4698,99	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
	R4700-06	ERJ2GEJ473	M 47KOHM, J,0.063W	7	
	R4736	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R4737,38	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R4739,40	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
	R4741	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R4821	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5058	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R5069	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5137	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R5188	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
	R5400	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5401	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5402	D1BB4532A055	M4.53KOHM, 1/10W	1	
	R5403	D1BB1002A055	M 10KOHM, 1/10W	1	
	R5405	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5406	ERJ2GEJ203	M 20KOHM,J,0.063W	1	
	R5407	D1BB8872A055	M8.87KOHM, 1/10W	1	
	R5408	D1BB1002A055	M 10KOHM, 1/10W	1	
	R5535	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
	R5536	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R5537	ERJ2GEJ152	M 1.5KOHM, J,0.063W	1	
	R5538	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
	R5540	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
	R5542	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
	R5544	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R5600	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R5604	D1BB4702A055	M 47KOHM, 1/10W	1	
	R5605	D1BB1272A055	M12.7KOHM, 1/10W	1	
	R5606,07	D0YAR0000007	M 0 OHM 1/4W	2	
	R5610	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5611	D1BB4702A055	M 47KOHM, 1/10W	1	
	R5612	D1BB3602A055	M 36KOHM, 1/10W	1	
	R5620	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R5621	D1BB2802A055	M 28KOHM, 1/10W	1	
	R5622	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5623	D1BB4702A055	M 47KOHM, 1/10W	1	
	R5625-28	D0YAR0000007	M 0 OHM 1/4W	4	
	R5629	D1BB2802A055	M 28KOHM, 1/10W	1	
	R5630	D1BB4752A055	M4.75KOHM, 1/10W	1	
	R5631	D1BB3602A055	M 36KOHM, 1/10W	1	
	R5632	D1BB3002A055	M 30KOHM, 1/10W	1	
	R5633	D1BB3602A055	M 36KOHM, 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5634	D1BB2802A055	M 28KOHM, 1/10W	1	
	R5635	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
	R5636	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
	R5637	D0YAR0000007	M 0 OHM 1/4W	1	
	R5638	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5641	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R5644	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
	R5646	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5647	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R5648	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5650,51	ERJ2GED563X	M 56KOHM ,J,0.063W	2	
	R5652	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5662	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5664	ERJ2GEJ105	M 1MOHM, J,0.063W	1	
	R5665	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R5666	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
	R5667	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R5732	D0YAR0000007	M 0 OHM 1/4W	1	
	R5733	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
	R5747	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5748	ERJ2GEJ123	M 12KOHM ,J,0.063W	1	
	R5749	ERJ2GEJ473	M 47KOHM, J,0.063W	1	
	R5762	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R7701	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	
	R7702	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R7703-05	ERJ3GEYJ680	M 68 OHM,J,1/16W	3	
	R7706	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R7709	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	
	R7710	D0GB101JA041	M 100 OHM,J,1/16W	1	
	R7713	J0JCC0000100	CHIP INDUCTOR	1	
	R7731	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R7791-96	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
	R8001	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8002	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
	R8004	D1BB2402A055	M 24KOHM, 1/10W	1	
	R8005	D1BB1002A055	M 10KOHM, 1/10W	1	
	R8006	D1BB6801A055	M 6.8KOHM, 1/10W	1	
	R8030	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R8031,32	D1BB2700A055	M 270 OHM, 1/10W	2	
	R8035	D0YAR0000007	M 0 OHM 1/4W	1	
	R8056-73	ERJ2GEJ470	M 47 OHM, J,0.063W	18	
	R8074	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8075-78	ERJ2GEJ470	M 47 OHM, J,0.063W	4	
	R8081	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8082	D1BA75R0A014	M0.75KOHM, 1/10W	1	
	R8083	ERJ2GEJ301	M 300 OHM, J,0.063W	1	
	R8086	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R8087	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8090	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8091	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R8093	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R8094	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8097	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8098,99	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R8100	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R8101	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8106	ERJ2GEJ202	M 2KOHM, J,0.063W	1	
	R8107	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R8112	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
	R8302,03	ERJ2GEJ470	M 47 OHM, J,0.063W	2	
	R8304	D0YAR0000007	M 0 OHM 1/4W	1	
	R8305,06	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
	R8307,08	ERJ2GEJ562	M 5.6KOHM, J,0.063W	2	
	R8309	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8311	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8313	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R8314	D1BB1202A055	M 12KOHM, 1/10W	1	PAVCA
	R8315	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8316,17	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R8318-20	ERJ2GEJ220	M 22 OHM, J,0.063W	3	
	R8321	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8323	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R8324-27	ERJ2GEJ470	M 47 OHM, J,0.063W	4	
	R8331	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R8333,34	ERJ2GEJ473	M 47KOHM, J,0.063W	2	
	R8335	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R8336	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R8504	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8512	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8517	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R8519,20	ERJ2RKD330	M 33 OHM, J,0.063W	2	
	R8528-30	ERJ2GEJ560	M 56 OHM, J,0.063W	3	
	R8532	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
	R8533	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8538-45	ERJ2GEJ220	M 22 OHM, J,0.063W	8	
	R8546-48	ERJ2GEJ332	M 3.3KOHM, J,0.063W	3	
	R8550	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
	R8552,53	ERJ2GEJ182	M 1.8KOHM, J,0.063W	2	
	R8554,55	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R8556	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R8557,58	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8561	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R8562-65	ERJ2GEJ103	M 10KOHM, J,0.063W	4	
	R8566	EXB28V103JX	RESISTOR ARRAY	1	
	R8570	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R8573	EXB28V680JX	RESISTOR ARRAY	1	
	R8574	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R8575	ERJ2GEJ820	M 82 OHM, J,0.063W	1	
	R8661	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8663	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8721,22	ERJ2GEJ560	M 56 OHM, J,0.063W	2	
	R8765	ERJ2GEJ750	M 75 OHM, J,0.063W	1	
	R8767	ERJ2GEJ750	M 75 OHM, J,0.063W	1	
	R8769	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R8770	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8772	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8793	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8844	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8866	D1BB91R0A055	M 91 OHM, 1/10W	1	PAVCA
	R8898	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9101	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9103	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9105	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9107	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
	R9110	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9112-14	ERJ2GEJ470	M 47 OHM, J,0.063W	3	
	R9115,16	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
	R9117	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9118	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R9119	EXB38V470J	RESISTOR ARRAY	1	
	R9120	D1HG1038A002	NETWORK RESISTER	1	
	R9121	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9123	EXB2HV470JV	RESISTOR ARRAY	1	
	R9124	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R9125	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9126	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9127	D0YAR0000007	M 0 OHM 1/4W	1	
	R9129	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
	R9130	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9131,32	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
	R9133	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R9134	D0YAR0000007	M 0 OHM 1/4W	1	
	R9135	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9136	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9137-40	EXB2HV220JV	RESISTOR ARRAY	4	
	R9141	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9142,43	ERJ2GEJ220	M 22 OHM, J,0.063W	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9144	D0YAR0000007	M 0 OHM 1/4W	1	
	R9145	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9146,47	EXB2HV220JV	RESISTOR ARRAY	2	
	R9148	EXB38VR000V	RESISTOR ARRAY	1	
	R9149	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9150,51	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R9154	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9155	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9156	D0YAR0000007	M 0 OHM 1/4W	1	
	R9157	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9158	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9159-61	ERJ2GEJ393	M 39KOHM,J,0.063W	3	
	R9162	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9163	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9164	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9166	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9167	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9168	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R9170	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9171	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9172	D0YAR0000007	M 0 OHM 1/4W	1	
	R9174	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9175	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9177-82	ERJ2GEJ220	M 22 OHM, J,0.063W	6	
	R9185	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
	R9186	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
	R9187	ERJ2GED563X	M 56KOHM ,J,0.063W	1	
	R9188	ERJ2GEJ243	M 24KOHM, J,0.063W	1	
	R9189	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9190	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9191	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9192	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9193	EXB2HV220JV	RESISTOR ARRAY	1	
	R9195	EXB2HV220JV	RESISTOR ARRAY	1	
	R9197	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9198	D0YAR0000007	M 0 OHM 1/4W	1	
	R9199	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9200,01	ERJ2GEJ100	M 10 OHM, J,0.063W	2	
	R9202	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9204	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
	R9205	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
	R9206	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9207	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9208-11	EXB2HV220JV	RESISTOR ARRAY	4	
	R9212	EXB2HV470JV	RESISTOR ARRAY	1	
	R9213	ERJ2GEJ101	M 100 OHM, J,0.063W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9214	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9215	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9216	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9217	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R9218	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9219	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9223	ERJ2RHD272	M 2.7KOHM, J,0.063W	1	
	R9224	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9225	ERJ2RHD272	M 2.7KOHM, J,0.063W	1	
	R9226	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9229	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9230	EXB38V470J	RESISTOR ARRAY	1	
	R9231	D0YAR0000007	M 0 OHM 1/4W	1	
	R9232	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9233	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9234,35	EXB2HV470JV	RESISTOR ARRAY	2	
	R9236	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R9237	EXB38V470J	RESISTOR ARRAY	1	
	R9238	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R9245	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9246	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9247	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9248-51	D1BB1001A055	M 1KOHM, 1/16W	4	
	R9252	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R9253-55	D1HG1038A002	NETWORK RESISTER	3	
	R9256-63	EXB38V470J	RESISTOR ARRAY	8	
	R9264-67	ERJ2GEJ470	M 47 OHM, J,0.063W	4	
	R9270,71	ERJ2GEJ470	M 47 OHM, J,0.063W	2	
	R9272	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9273	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9274-77	EXB2HV151JV	RESISTOR ARRAY	4	PAVCA
	R9279	D0YAR0000007	M 0 OHM 1/4W	1	
	R9280-82	D1HG1038A002	NETWORK RESISTER	3	
	R9283	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9286-88	D0YAR0000007	M 0 OHM 1/4W	3	
	R9292	EXB2HVR000	RESISTOR ARRAY	1	
	R9293	EXB2HV470JV	RESISTOR ARRAY	1	
	R9295-04	ERJ2GEJ101	M 100 OHM, J,0.063W	10	
	R9308	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9309	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9310	EXB38V103JV	RESISTOR ARRAY	1	
	R9311	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9312	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
	R9315	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9317	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9319	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9321	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9323	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9325	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9326	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9327	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9333	EXB38V103JV	RESISTOR ARRAY	1	
	R9334	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9335	D1HG1038A002	NETWORK RESISTER	1	
	R9337	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9341	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9342,43	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R9344	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9345	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R9348	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9350,51	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
	R9352	EXB2HV470JV	RESISTOR ARRAY	1	
	R9353	EXB38V470J	RESISTOR ARRAY	1	
	R9354	D1HG1038A002	NETWORK RESISTER	1	
	R9355	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9358	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9362	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9385	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9400	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9578	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
	R9599,00	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
	R9611	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
	R9824-26	ERJ2GEJ101	M 100 OHM, J,0.063W	3	
	R9839	EXB38V101JV	RESISTOR ARRAY	1	
	R9840	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9846,47	D1HG1038A002	NETWORK RESISTER	2	
	R9848,49	EXB2HV470JV	RESISTOR ARRAY	2	
	R9854	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
	R9859	EXB38V101JV	RESISTOR ARRAY	1	
	R9868	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9869-71	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
	R9878	D1BB1502A055	M 15KOHM, 1/10W	1	
	R9879	D1BB1302A055	M 13KOHM, 1/10W	1	
	R9886	D1BB4702A055	M 47KOHM, 1/10W	1	
	R9887	D1BB5102A055	M 51KOHM, 1/10W	1	
	R9888	D1BB1502A055	M 15KOHM, 1/10W	1	
	R9889	D1BB1822A055	M18.2KOHM, 1/10W	1	
	R9890	D1BB4752A055	M4.75KOHM, 1/10W	1	
	R9891	D1BB1272A055	M12.7KOHM, 1/10W	1	
	R9892	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9893	D1BB4302A055	M 43KOHM, 1/10W	1	
	R9894	D1BB2002A055	M 20KOHM, 1/10W	1	
	R9895	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R9896	D1BB1822A055	M18.2KOHM, 1/10W	1	
	R9897	D1BB4752A055	M4.75KOHM, 1/10W	1	
	R9901	D0YAR0000007	M 0 OHM 1/4W	1	
	R9905	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R9907	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R9936-39	D1BB1001A055	M 1KOHM, 1/16W	4	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9940	ERJ2RKD330	M 33 OHM, J,0.063W	1	
	R9944-51	EXB38V470J	RESISTOR ARRAY	8	
	R9952-55	ERJ2GEJ470	M 47 OHM, J,0.063W	4	
	R9966	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
	R9969	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9972-74	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
	R9975	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
	R9980	D0YAR0000007	M 0 OHM 1/4W	1	
	R14349	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14350	D0GD101JA036	M 100 OHM,J,0.25W	1	
	R14351	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14353	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14354	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14356	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14357	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14359	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14360	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14362	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14363	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14365	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14366	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14368	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14369	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14371	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14372	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R14374-76	D0GDR00Z0002	M 0 OHM, 1/10W	3	
	R14378	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14380-82	D0GDR00Z0002	M 0 OHM, 1/10W	3	
	R14384	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14386-88	D0GDR00Z0002	M 0 OHM, 1/10W	3	
	R14390	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14392-94	D0GDR00Z0002	M 0 OHM, 1/10W	3	
	R14398	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14901	D0GD101JA036	M 100 OHM,J,0.25W	1	
	R14902-06	ERJ6GEYG221	M 220 OHM,J,1/10W	5	
	R14907-10	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
	R14911-14	D0GD103JA036	M 10KOHM,J,0.25W	4	
	R14915	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
	R14916	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14917	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
	R14919,20	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
	R14921	ERJ8GEYJ224	M 220KOHM, J,1/8W	1	
	R14923-26	D0GD103JA036	M 10KOHM,J,0.25W	4	
	R14928,29	ERJ6GEYG221	M 220 OHM,J,1/10W	2	
	R14930	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14931	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
	R14932	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14934	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
	R14935	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R14936	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R14937	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R14939,40	D0GDR00Z0002	M 0 OHM, 1/10W	2	
	R14942	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14943	ERJ6GEYG470V	M 47 OHM,J,1/10W	1	
	R14944	ERJ6GEYJ100V	M 10 OHM,J,1/10W	1	
	R14949	ERJ6GEYJ203	M 20KOHM,J,1/10W	1	
	R14950	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14951-55	D0GDR00Z0002	M 0 OHM, 1/10W	5	
	R14956-60	ERJ3GEYJ220	M 22 OHM,J,1/16W	5	
	R14961-63	ERJ6GEYG331	M 330 OHM,G,1/10W	3	
	R14964	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
	R14965	ERJ6GEYG331	M 330 OHM,G,1/10W	1	
	R14966,67	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
	R14971	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
	R14973-76	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
	R14977-79	ERJ6GEYG222	M 2.2KOHM,J,1/10W	3	
	R14980	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R14981,82	D0GD103JA036	M 10KOHM,J,0.25W	2	
	R14984	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14986	ERJ8GEYJ224	M 220KOHM, J,1/8W	1	
	R14987	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
	R14988	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R14990	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R14991	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
	R14992-94	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
	R14995-98	D0GD103JA036	M 10KOHM,J,0.25W	4	
	R14999	ERJ6GEYG331	M 330 OHM,G,1/10W	1	
	R16002-04	ERJT08J7R5V	M 7.5OHM,J, 0.33W	3	
	R16022-24	ERJT08J7R5V	M 7.5OHM,J, 0.33W	3	
	R16031,32	ERJ6ENF8202	M 82KOHM, 1/10W	2	
	R16033	ERJ6ENF5602	M 56KOHM, 1/10W	1	
	R16034	ERJ6ENF2702	M 27KOHM, 1/10W	1	
	R16042	ERJT08J5R6V	M 5.6 OHM,F,0.33W	1	
	R16051	ERJT08J5R6V	M 5.6 OHM,F,0.33W	1	
	R16102	ERJT06J221V	M 220 OHM,F,0.25W	1	
	R16104	ERJT06J221V	M 220 OHM,F,0.25W	1	
	R16106	ERJT06J221V	M 220 OHM,F,0.25W	1	
	R16109	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16110	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16116	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16131,32	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16134	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16137-39	ERJT08J1R0V	M 1.8OHM,J, 0.33W	3	
	R16141	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16142,43	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16151,52	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16154	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16155	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16159	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16161	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16162,63	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16171	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16172,73	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16181	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16182,83	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16191,92	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16193	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16194	ERJT14J1R0U	C1.0 OHM, J,1/4W	1	PAVCA
	R16195	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16220	ERJ6GEYG470V	M 47 OHM,J,1/10W	1	
	R16221	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16230	ERJ6GEYG470V	M 47 OHM,J,1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R16231	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16241	EXB38V470J	RESISTOR ARRAY	1	
	R16242	EXB38V472JV	RESISTOR ARRAY	1	
	R16251	ERJ6ENF1401	M 1.4KOHM, 1/10W	1	
	R16252,53	ERJ6ENF3902	M 39KOHM, 1/10W	2	
	R16254	ERJ6ENF6801	M 6.8KOHM, 1/10W	1	
	R16255	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
	R16256	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
	R16257	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16258	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16260	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16261	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R16280	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16281	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16282	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R16283	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16284	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
	R16289	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
	R16290	ERJT08J334V	M 330KOHM,F,0.33W	1	
	R16291	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
	R16292	ERJT08J334V	M 330KOHM,F,0.33W	1	
	R16293	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
	R16294	ERJT08J334V	M 330KOHM,F,0.33W	1	
	R16295	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
	R16296	ERJT08J334V	M 330KOHM,F,0.33W	1	
	R16300	ERJT08J102V	M 1KOHM,J, 0.33W	1	
	R16301	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16302	ERJ8GEYJ105	M 1MOHM, J,1/8W	1	
	R16303	D0GD101JA036	M 100 OHM,J,0.25W	1	
	R16304	ERJT08J681V	M 680 OHM,F,0.33W	1	
	R16305	ERJ6GEYG271	M 270 OHM,J,1/10W	1	
	R16306-08	D0GD101JA036	M 100 OHM,J,0.25W	3	
	R16309	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16310	ERJ6GEYG562	M 5.6KOHM,J,1/10W	1	
	R16311,12	ERJ6GEYF124	M 120KOHM,J,1/10W	2	
	R16313	ERJ6ENF5232	M52.3KOHM, 1/10W	1	
	R16314	ERJ6ENF6652	M66.5KOHM, 1/10W	1	
	R16315	ERJ6ENF1241	M1.24KOHM, 1/10W	1	
	R16317	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16321	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16322	ERJ6GEYF561	M 560 OHM,F,1/10W	1	
	R16323	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
	R16324	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16325	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16331	ERJT06J101V	M 100 OHM,F,0.25W	1	
	R16333	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
	R16334	ERJT06J101V	M 100 OHM,F,0.25W	1	
	R16336	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16338	ERJT06J101V	M 100 OHM,F,0.25W	1	
	R16339	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
	R16340	ERJT06J152V	M 1.5KOHM,F,0.25W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R16401	ERJT08J7R5V	M 7.5OHM,J, 0.33W	1	
	R16403,04	ERJT08J7R5V	M 7.5OHM,J, 0.33W	2	
	R16421	ERJT08J7R5V	M 7.5OHM,J, 0.33W	1	
	R16423,24	ERJT08J7R5V	M 7.5OHM,J, 0.33W	2	
	R16441,42	ERJT08J5R6V	M 5.6 OHM,F,0.33W	2	
	R16452	ERJT08J5R6V	M 5.6 OHM,F,0.33W	1	
	R16465	ERJ6ENF2702	M 27KOHM, 1/10W	1	
	R16466	ERJ6ENF5602	M 56KOHM, 1/10W	1	
	R16467,68	ERJ6ENF8202	M 82KOHM, 1/10W	2	
	R16471	ERJ6GEYG392	M 3.9KOHM,J,1/10W	1	
	R16472	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16473	ERJ6GEYF561	M 560 OHM,F,1/10W	1	
	R16474	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R16475,76	ERJ6GEYF472	M 4.7KOHM,F,1/10W	2	
	R16477	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R16478	ERJ6GEYG562	M 5.6KOHM,J,1/10W	1	
	R16479	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16480	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16501,02	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16503	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16504	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16506	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16507-09	ERJT08J1R0V	M 1.8OHM,J, 0.33W	3	
	R16510	ERJT14J1R0U	C1.0 OHM, J,1/4W	1	PAVCA
	R16511,12	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16516,17	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16521,22	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16523	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16531	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16532,33	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16541	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16543	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16551	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16552,53	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16561-64	EXB38V470J	RESISTOR ARRAY	4	
	R16565-68	EXB38V472JV	RESISTOR ARRAY	4	
	R16570	EXB38V472JV	RESISTOR ARRAY	1	
	R16573	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
	R16579	EXB38V470J	RESISTOR ARRAY	1	
	R16580	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16582,83	ERJ6ENF3902	M 39KOHM, 1/10W	2	
	R16584	ERJ6ENF6801	M 6.8KOHM, 1/10W	1	
	R16585	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
	R16586	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
	R16587	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16588	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16590	ERJ6GEYG221	M 220 OHM,J,1/10W	1	
	R16591	EXB38V472JV	RESISTOR ARRAY	1	
	R16592	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16593	ERJ6ENF1401	M 1.4KOHM, 1/10W	1	
	R16600	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16601	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16602	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R16603,04	ERJ6GEYG331	M 330 OHM,G,1/10W	2	
	R16605	ERJ6GEYG182	M 1.8KOHM,J,1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R16606	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16607	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
	R16608,09	ERJT08J102V	M 1KOHM,J, 0.33W	2	
	R16610	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R16611	ERG2FJS104D	M 100KOHM, J, 2W	1	
	R16612	ERJT06J470V	M 47 OHM,F,0.25W	1	
	R16613	ERJ8GEYJ473	M 47KOHM, J,1/8W	1	
	R16615	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	
	R16616	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16617	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16619	ERJ6GEYF124	M 120KOHM,J,1/10W	1	
	R16622-25	ERJ6GEYG221	M 220 OHM,J,1/10W	4	
	R16627-30	ERJ6GEYG221	M 220 OHM,J,1/10W	4	
	R16632	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16633	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
	R16634	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
	R16635	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16636	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16637	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R16638	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16639	ERJT14J1R0U	C1.0 OHM, J,1/4W	1	PAVCA
	R16641-44	ERJT06J330V	M 33 OHM,F,0.25W	4	
	R16647-50	ERJT06J330V	M 33 OHM,F,0.25W	4	
	R16657	ERJ6GEYG682	M 6.8KOHM,J,1/10W	1	
	R16658	D0D1101JA009	M 100 OHM,J,1W	1	
	R16659,60	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
	R16661	ERJ6GEYG182	M 1.8KOHM,J,1/10W	1	
	R16662	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
	R16663	ERJ6GEYG562	M 5.6KOHM,J,1/10W	1	
	R16664	ERJT08J102V	M 1KOHM,J, 0.33W	1	
	R16665	ERJT06J330V	M 33 OHM,F,0.25W	1	
	R16666	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16667	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
	R16668	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16669	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16670	ERJT06J470V	M 47 OHM,F,0.25W	1	
	R16671	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16672	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R16673	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R16675	ERJT08J102V	M 1KOHM,J, 0.33W	1	
	R16681-84	ERJT06J100V	M 10 OHM,F,0.25W	4	
	R16686-89	ERJT06J100V	M 10 OHM,F,0.25W	4	
	R16696	ERF5TK2R2	W 2.2 OHM, K, 5W	1	
	R16700	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16701	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16702	ERJ6GEYG332	M 3.3KOHM,J,1/10W	1	
	R16703,04	D0GD103JA036	M 10KOHM,J,0.25W	2	
	R16705,06	D0GD101JA036	M 100 OHM,J,0.25W	2	
	R16707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
	R16717	ERJ6GEYG222	M 2.2KOHM,J,1/10W	1	
	R16719-23	ERJ3GEYJ220	M 22 OHM,J,1/16W	5	
	R16729,30	ERJ6GEYF473	M 47KOHM,J,1/10W	2	
	R16731	ERG1FJS823D	M 82KOHM, J, 1W	1	
	R16732	ERJ6GEYG392	M 3.9KOHM,J,1/10W	1	
	R16733	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
	R16734	ERJ6ENF4991	M4.99KOHM, 1/10W	1	
	R16735,36	ERJ6ENF2213	M 221KOHM, 1/10W	2	
	R16737	ERJ6ENF2103	M 210KOHM, 1/10W	1	
	R16738	ERG1FJS823D	M 82KOHM, J, 1W	1	
	R16740	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R16742	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16744	ERJ6ENF2003	M 200KOHM, 1/10W	1	
	R16745	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
	R16746,47	ERJT06J103V	M 10KOHM,F,0.25W	2	
	R16749	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16750	ERJT06J223V	M 22 KOHM,F,0.25W	1	
	R16751	ERJT06J224V	M 220KOHM,F,0.25W	1	
	R16752	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16753	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16756	ERJT06J223V	M 22 KOHM,F,0.25W	1	
	R16757	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16761	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16762	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16763	ERJT06J100V	M 10 OHM,F,0.25W	1	
	R16764	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16765	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16766	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16768	ERJT08J1R0V	M 1.8OHM,J, 0.33W	1	
	R16769	ERJT06J750V	M 75 OHM,F,0.25W	1	
	R16771	ERJ6GEYG182	M 1.8KOHM,J,1/10W	1	
	R16774	ERG1SJ683	M 68KOHM, J, 1W	1	
	R16775	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16776	D0GD101JA036	M 100 OHM,J,0.25W	1	
	R16777	ERJT06J151V	M 150 OHM,F,0.25W	1	
	R16778	ERJ6GEYG182	M 1.8KOHM,J,1/10W	1	
	R16781	ERJT06J470V	M 47 OHM,F,0.25W	1	
	R16782	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16783	ERJT06J470V	M 47 OHM,F,0.25W	1	
	R16784	ERJ6GEYF473	M 47KOHM,J,1/10W	1	
	R16785,86	ERJ6ENF8202	M 82KOHM, 1/10W	2	
	R16787	ERJ6ENF3302	M 33KOHM, 1/10W	1	
	R16788	ERJT06J154V	M 150KOHM,F,0.25W	1	
	R16789	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16791	ERJ6GEYG102	M 1KOHM,J,1/10W	1	
	R16792	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16794,95	ERJ6ENF2003	M 200KOHM, 1/10W	2	
	R16796	ERJ6ENF5602	M 56KOHM, 1/10W	1	
	R16797	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
	R16798	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16799	ERJ6ENF3302	M 33KOHM, 1/10W	1	
	R16801,02	ERJ6GEYF472	M 4.7KOHM,F,1/10W	2	
	R16804,05	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
	R16807,08	ERJ6GEYF472	M 4.7KOHM,F,1/10W	2	
	R16810,11	ERJ6ENF1742	M17.4KOHM, 1/10W	2	
	R16813	ERJ8GEYJ102	M 1KOHM, J,1/8W	1	
	R16814	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
	R16815	D1BD1002A044	ERJ6ENF1002V	1	PAVCA
	R16816	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16818,19	ERJ6ENF6802	M 68KOHM, 1/10W	2	
	R16820	ERJ6ENF7872	M78.7KOHM, 1/10W	1	
	R16821	ERJ6ENF1003	M 100KOHM, 1/10W	1	
	R16822,23	ERJ6ENF8202	M 82KOHM, 1/10W	2	
	R16824	ERJ6ENF3302	M 33KOHM, 1/10W	1	
	R16825	ERJT06J154V	M 150KOHM,F,0.25W	1	
	R16826	D0GD103JA036	M 10KOHM,J,0.25W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R16827	D0GDR00Z0002	M 0 OHM, 1/10W	1	
	R16828	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16831,32	ERJ6GEYG104	M 100KOHM,J,1/10W	2	
	R16833	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16834,35	D0GDR00Z0002	M 0 OHM, 1/10W	2	
	R16838	ERJ14YJ563U	M 56KOHM, 1/2W	1	
	R16841	ERJ14YJ563U	M 56KOHM, 1/2W	1	
	R16844	ERJ6ENF1241	M1.24KOHM, 1/10W	1	
	R16845	ERJ6ENF5622	M5.62KOHM, 1/10W	1	
	R16846	ERJ6ENF5762	M57.6KOHM, 1/10W	1	
	R16850	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16851	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R16852	D0GD103JA036	M 10KOHM,J,0.25W	1	
	R16855	ERG1FJS103D	M 10KOHM, J, 1W	1	
	R16856	ERQ12AJW560E	F 56 OHM, J,1/2W	1	
	R16857	ERJ12YJ124U	M 120KOHM, 1/2W	1	
	R16860	D0D28R2JA021	M 8.2 OHM,J,2W	1	
	R16869	ERJ8GEYJ473V	M 47KOHM, J,1/8W	1	
	R16870	ERG2FJS333D	M 33KOHM, J, 2W	1	
	R16871	ERJ6GEYG392	M 3.9KOHM,J,1/10W	1	
	R16872	ERJ6GEYG332	M 3.3KOHM,J,1/10W	1	
	R16873	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
	R16874,75	ERJ6ENF7152	M71.5KOHM, 1/10W	2	
	R16878	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
	R16879	ERJ6GEYF472	M 4.7KOHM,F,1/10W	1	
	R16880	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
	R16886-88	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
	R17107-10	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	4	
	R17119-22	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	4	
	R17125,26	EXB38V471J	RESISTOR ARRAY	2	
	R17128,29	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17131,32	EXB38V471J	RESISTOR ARRAY	2	
	R17134,35	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17137	D0GF472JA047	M 4.7KOHM,J,0.33W	1	
	R17138	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
	R17139	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R17140	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
	R17151,52	EXB38V470J	RESISTOR ARRAY	2	
	R17153	EXB38V681J	RESISTOR ARRAY	1	
	R17154	EXB38V470J	RESISTOR ARRAY	1	
	R17155,56	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
	R17157,58	EXB38V220JV	RESISTOR ARRAY	2	
	R17159,60	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
	R17167,68	EXB38V470J	RESISTOR ARRAY	2	
	R17169,70	EXB38V471J	RESISTOR ARRAY	2	
	R17173,74	EXB38V470J	RESISTOR ARRAY	2	
	R17175,76	EXB38V471J	RESISTOR ARRAY	2	
	R17179,80	EXB38V470J	RESISTOR ARRAY	2	
	R17181,82	EXB38V471J	RESISTOR ARRAY	2	
	R17201-04	EXB38V471J	RESISTOR ARRAY	4	
	R17209-12	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	4	
	R17213-16	EXB38V471J	RESISTOR ARRAY	4	
	R17221-24	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	4	
	R17225,26	EXB38V471J	RESISTOR ARRAY	2	
	R17229,30	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17251,52	EXB38V470J	RESISTOR ARRAY	2	
	R17253	EXB38V681J	RESISTOR ARRAY	1	
	R17254	EXB38V470J	RESISTOR ARRAY	1	
	R17255,56	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
	R17257	EXB38V220JV	RESISTOR ARRAY	1	
	R17258	EXB38V681J	RESISTOR ARRAY	1	
	R17259	EXB38V220JV	RESISTOR ARRAY	1	
	R17260	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
	R17261,62	EXB38V470J	RESISTOR ARRAY	2	
	R17263,64	EXB38V681J	RESISTOR ARRAY	2	
	R17277,78	EXB38V471J	RESISTOR ARRAY	2	
	R17304,05	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17310,11	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17316,17	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17322,23	D0GZ6R8JA020	M 6.8 OHM,J, 0.5W	2	
	R17341	D0GF472JA047	M 4.7KOHM,J,0.33W	1	
	R17342,43	EXB38V470J	RESISTOR ARRAY	2	
	R17344,45	EXB38V471J	RESISTOR ARRAY	2	
	R17346,47	EXB38V470J	RESISTOR ARRAY	2	
	R17348,49	EXB38V471J	RESISTOR ARRAY	2	
	R17350,51	EXB38V470J	RESISTOR ARRAY	2	
	R17352,53	EXB38V471J	RESISTOR ARRAY	2	
	R17354	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
	R17355	ERJ6GEYG104	M 100KOHM,J,1/10W	1	
	R17356	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
	R17357,58	EXB38V220JV	RESISTOR ARRAY	2	
	R17359,60	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
	RM2501	PNA4701M07TV	REMOCON RECEIVER	1	
	S2	K1KA02BA0061	2P CONNECTOR	1	
	SC2	K1KA02A00676	2P CONNECTOR	1	
	SC20	K1MN35BA0266	35P CONNECTOR	1	PAVCA
	SC30	K1KA08AA0190	8P CONNECTOR	1	
	SC41,42	K1KA23AA0733	23P CONNECTOR	2	
	SC46	K1KA09A00239	9P CONNECTOR	1	
	SCMM1	TMME047	CLAMPER	1	
	SCMM4	TMME292	CLAMPER	1	
	SCMM5	TMME260	CLAMPER	1	
	SD1B-5B	K1MNA8BA0250	8P CONNECTOR	5	
	SD11	K1MN20BA0231	20P CONNECTOR	1	
	SD42	K1KB23AA0234	23P CONNECTOR	1	PAVCA
	SD46	K1KY09AA0607	9P CONNECTOR	1	
	SS2MM2	TMME190	CLAMPER	1	
	SS11	K1KA02A00676	2P CONNECTOR	1	
	SS12	K1KA10AA0194	10P CONNECTOR	1	
	SS21	K1KA07A00170	7P CONNECTOR	1	
	SS24	K1KB07AA0087	7P CONNECTOR	1	
	SS33	K1KA10A00416	10P CONNECTOR	1	
	SS34	K1KA03AA0193	3P CONNECTOR	1	
	SS35	K1KA04AA0193	4P CONNECTOR	1	
	SS53	K1MN13BA0258	13P CONNECTOR	1	
	SS55,56	K1MN13BA0258	13P CONNECTOR	2	
	SS58A	K1MN13BA0258	13P CONNECTOR	1	
	SSMM3,M4	TMME190	CLAMPER	2	
	SU1B-5B	K1MNA8BA0250	8P CONNECTOR	5	
	SU11	K1MN20BA0266	20P CONNECTOR	1	PAVCA
	SU41	K1KB23AA0234	23P CONNECTOR	1	PAVCA
	SW2500	K0F122A00172	SWITCREMOTE CONTROLH	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	SW3751	EVQPC105K	SWITCH	1	
	SW3753-58	EVQPC105K	SWITCH	6	
	T16301A	ETS19AB249AC	SWITCHING TRANS	1	
⚠	TU8300	ENGE6608KF	TUNER	1	PAVCA
	VR16000	EVMEASA00B54	CONTROL 50KOHMB 0.3W	1	
	VR16600	EVMEASA00B54	CONTROL 50KOHMB 0.3W	1	
	VR16602	EVMEASA00B23	CONTROL 2KOHMB 0.3W	1	
	X1100	H0J100500035	CRYSTAL	1	
	X2010	H0J245500089	CRYSTAL	1	
	X8001	H0J270500061	CRYSTAL	1	
	X8300	H0J250500079	CRYSTAL	1	PAVCA
	X9000	H2D100500004	CRYSTAL	1	
	X9200	H0J200500076	CRYSTAL	1	
	ZA3701,02	K4CZ01000027	COMPATIBLE WITH JALCO K9	2	
	ZA3801,02	K4AD01D00005	TERMINAL	2	
	ZA4700	K4AZ01D00004	TERMINAL	1	
	ZA4702-08	K4AZ01D00004	TERMINAL	7	
	ZA7701,02	K4CZ01000027	COMPATIBLE WITH JALCO K9	2	
	ZA9000	K4CD01000011	AV TERMINAL	1	
	ZA14901,02	K4AD01Z00003	TERMINAL	2	PAVCA
	ZA14951,52	K4AD01Z00003	TERMINAL	2	PAVCA
	ZA16001-03	K4CD01000011	AV TERMINAL	3	
	ZA16401-03	K4CD01000011	AV TERMINAL	3	
	ZA17102-05	K4AD01Z00001	TERMINAL	4	
	ZA17201	K4AD01Z00001	TERMINAL	1	
	ZA17203-05	K4AD01Z00001	TERMINAL	3	
	ZA17301-04	K4AD01Z00001	TERMINAL	4	
⚠	A601	AYRA652MSV8T	ARRESTOR	1	
⚠	C501	ECQU2A103MLA	P 0.01UF, M,250V	1	
⚠	C503	ACKMQ2W560T	ELECTROLYTIC CAPACITOR	1	
	C505	ECQV1H224JL	P 0.22UF, J, 50V	1	
	C506	ACKZE1H100T	ELECTROLYTIC CAPACITOR	1	
	C507	ACKZE1H221T	ELECTROLYTIC CAPACITOR	1	
	C508	ACKZE1H220T	ELECTROLYTIC CAPACITOR	1	
	C551	ACKZE1A471C	ELECTROLYTIC CAPACITOR	1	
	C557	ECQV1473JM	PLASTIC FILM CAPACITOR	1	
	C558	ECQV1H224JL	P 0.22UF, J, 50V	1	
	C559	ECQV1H474JL	P 0.47UF, J, 50V	1	
⚠	C601	ECQU2A105MLA	PLASTIC FILM CAPACITOR	1	
⚠	D501	VDS1WBA80	DIODE	1	
	D504	VXST3D82BL3	POWER CLAMPER	1	
	D505,06	VDAG01AT	DIODE	2	
	D551	VDRK39A5	DIODE	1	
	D556	VDRF101A2S	DIODE	1	
⚠	F501	HU382T2C	MICRO FUSE	1	
⚠	F601,02	HU215010BEP	CARTRIDGE FUSE(LEADTYPE)	2	
⚠	IC501	MIP3E30MPSCF	IC	1	
	IC555	AN1431TBTA	INTEGRATED CIRCUIT	1	
	L501	EXCELSA35	BEAD CHOKE	1	
	L502,03	EXCELDR35C	BEAD CHOKE	2	
	L551	EXCELDR35C	BEAD CHOKE	1	
⚠	L601,02	AYP3165208ZA	FILTER CHOKE	2	
⚠	L604	AYP3165208ZA	FILTER CHOKE	1	
	MC501	MDPTZA101	MODULE	1	
⚠	P9	AKS02B-VT	CONNECTOR	1	
⚠	P51	AKB6P-VH	CONNECTOR	1	
⚠	P53	AKB2P-VH	CONNECTOR	1	
	P55	AKB4B-EH-A	CONNECTOR	1	
⚠	PC502	VPS2581AL1VH	OPTOISOLATOR	1	
	R501	ARR5B100JC2	WIREWOUND RESISTOR	1	
⚠	R502	ARRCR6J825M	METAL GLAZE FIXED RESISTOR	1	
	R505	ERDS2FJ561	C 560 OHM, J,1/4W	1	
	R506	ARRCR2F1304T	METAL GLAZE FIXED RESISTOR	1	
	R507	ARRCR2F1184T	METAL GLAZE FIXED RESISTOR	1	
	R509	ARRCR2F1304T	METAL GLAZE FIXED RESISTOR	1	
	R510	ARRCR2F1184T	METAL GLAZE FIXED RESISTOR	1	
	R522	ERDS2FJ180	CARBON FILM RESISTOR	1	
	R555	ER0S2CKF1052	M10.5KOHM, F,1/4W	1	
	R558	ER0S2CKF1503	M 150KOHM, F,1/4W	1	
	R560	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
	R562	ERDS2FJ150	CARBON FILM RESISTOR	1	
	R563	ERDS2FJ121	CARBON FILM RESISTOR	1	
	R564	ER0S2CHD1002	METAL FILM RESISTOR	1	
⚠	R601	ARRCR5J624M	METAL GLAZE FIXED RESISTOR	1	
⚠	T501	ETB25AH118AH	TRANSFORMER	1	
⚠	Z501	ERZVGAD471	VARISTOR	1	
⚠	Z601,02	ERZVGED751	VARISTOR	2	
⚠	Z603	ERZVGAD471	VARISTOR	1	
	ZD501,02	MA4300NM	ZENER DIODE	2	
	ZD503	MA4082NM	ZENER DIODE	1	
	ZD555	MA4330NM	ZENER DIODE	1	
	C201	ACKZE1H220T	ELECTROLYTIC CAPACITOR	1	
	C202,03	ACCC3FD470JP	CERAMIC CAPACITOR	2	
	C204,05	ACMPEF12333H	PLASTIC FILM CAPACITOR	2	
⚠	C206	ECKENA101KBR	C 100P 250V	1	
	C207,08	ACDE1R681KP	CERAMIC CAPACITOR	2	
	C251	ECQV1H104JL	P 0.1UF, J, 50V	1	
	C252	ECQV1H224JL	P 0.22UF, J, 50V	1	
	C254,55	ECQE2223SKF	PLASTIC FILM CAPACITOR	2	
⚠	C256-58	ACKMQ220901Z	ELECTROLYTIC CAPACITOR	3	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C301	ACKZE1H220T	ELECTROLYTIC CAPACITOR	1	
	C302,03	ACRR3DD101K7	CERAMIC CAPACITOR	2	
	C304	ACMPEF12473H	PLASTIC FILM CAPACITOR	1	
	C305,06	ACCK1B331KP	CERAMIC CAPACITOR	2	
	C352	ACKZE1E182ST	ELECTROLYTIC CAPACITOR	1	
	C354	ECQV1H224JL	P 0.22UF, J, 50V	1	
	C355	ECQV1H823JL	PLASTIC FILM CAPACITOR	1	
	C357,58	ACKZE1E471LT	ELECTROLYTIC CAPACITOR	2	
	C401,02	ECQE2104SKF	PLASTIC FILM CAPACITOR	2	
⚠	C403	EETHC2C471HX	ELECTROLYTIC CAPACITOR	1	
	C404	ACKZE1H101T	ELECTROLYTIC CAPACITOR	1	
⚠	C406	EETHC2A122JJ	ELECTROLYTIC CAPACITOR	1	
	C409	ECQE2104SKF	PLASTIC FILM CAPACITOR	1	
	C451	ACKZE1A471C	ELECTROLYTIC CAPACITOR	1	
	C504	ACKZE1H220T	ELECTROLYTIC CAPACITOR	1	
	C555	ACKZE1E470T	ELECTROLYTIC CAPACITOR	1	
⚠	C602	ECQU2A105MLA	PLASTIC FILM CAPACITOR	1	
⚠	C603,04	ECKENA471KBR	CERAMIC CAPACITOR	2	
	C605	ACDE1R102K7	CERAMIC CAPACITOR	1	
	C606	AC4MPK105KA3	PLASTIC FILM CAPACITOR	1	
	C610	ECQV1H105JL	PLASTIC FILM CAPACITOR	1	
	C611	ACKZE1H220T	ELECTROLYTIC CAPACITOR	1	
⚠	C612,13	EETHD2W301LZ	ELECTROLYTIC CAPACITOR	2	
⚠	C615	ECKENA221KBR	C 221P 250V	1	
	C625	ACDE1R222KP	CERAMIC CAPACITOR	1	
	C701	ACKZE1A471C	ELECTROLYTIC CAPACITOR	1	
	C702	ECQV1H103JL	P 0.01UF, J, 50V	1	
	D251	MA165KU	DIODE	1	
	D254-57	MA2DF3100S	DIODE	4	
	D351	VDG865C08R	DIODE	1	
	D352	VDAG01AT	DIODE	1	
	D353	VDG865C08R	DIODE	1	
	D401	VDD6SBN20	DIODE	1	
	D402	VDAG01AT	DIODE	1	
	D403	VDYG901C3R	DIODE	1	
	D601,02	MA165KU	DIODE	2	
	D603,04	VDAP01CT	DIODE	2	
	D606	VDS3V60L1	DIODE	1	
	D702	VDERA83-004T	DIODE	1	
⚠	F201	HU216005BEP	CARTRIDGE FUSE(LEADTYPE)	1	
⚠	F301	HU216005BEP	CARTRIDGE FUSE(LEADTYPE)	1	
	IC251	AN1431TBTA	INTEGRATED CIRCUIT	1	
	IC352	AN1431TBTA	INTEGRATED CIRCUIT	1	
⚠	K601	ALKT329C93	RELAY	1	
⚠	K602	ALDJ5D2T8	RELAY	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L401	AYLH8TB681K	CHOKE	1	
	L402	AYH221012HY	CHOKE	1	
	L603	ETB50CZ14GAD	CHOKE	1	
⚠	MC201	MDPPNB331	MODULE	1	
⚠	MC203	MP00R3A1	MODULE	1	
⚠	MC301	MDPPNB102	MODULE	1	
⚠	MC352	MDPJFB101	MODULE	1	
⚠	MC401	MDPPSA101	MODULE	1	
⚠	MC451	MDPLSB101	MODULE	1	
⚠	MC502	MDPHHA101	MODULE	1	
⚠	MC552	MDPPFC101	MODULE	1	
⚠	MC601	MDPLPA101	MODULE	1	
⚠	MC602	MP00P18	MODULE	1	
⚠	MC603	MP00P28	MODULE	1	
⚠	MC606	MP00P29	MODULE	1	
⚠	MC701	MDPZDA101	MODULE	1	
	P2	AKB2P3-VH-B	CONNECTOR	1	
	P6	AKB12B-EH-A	CONNECTOR	1	
	P7	AKB11B-EH-A	CONNECTOR	1	
	P11	AKB2P3-VH-B	CONNECTOR	1	
	P12	AKB10B-PH-KS	CONNECTOR	1	
	P25	AKB13B-PH-KS	CONNECTOR	1	
⚠	P52	AKB6P-VH	CONNECTOR	1	
⚠	P54	AKB2P-VH	CONNECTOR	1	
	P56	AKB4B-EH-A	CONNECTOR	1	
⚠	PC201,02	VPS2581AL1VH	OPTOISOLATOR	2	
⚠	PC301,02	VPS2581AL1VH	OPTOISOLATOR	2	
⚠	PC401	VPS2581AL1VH	OPTOISOLATOR	1	
⚠	PC501	VPS2581AL1VH	OPTOISOLATOR	1	
⚠	Q301,02	VKFMA16N55G	FIELD EFFECT TRANSISTOR	2	
	Q351	2SK3704	FIELD EFFECT TRANSISTOR	1	
	Q401	2SK3607	FIELD EFFECT TRANSISTOR	1	
	Q402,03	2SA17670Q2TV	TRANSISTOR	2	
	R202	ERQ14AJ4R7J	F 4.7 OHM, J,1/4W	1	
	R203,04	ERDS2FJ334	CARBON FILM RESISTOR	2	
	R208	ERG12SJ910J	METAL OXIDE FILM RESISTOR	1	
	R215	ERG12SJ680J	METAL OXIDE FILM RESISTOR	1	
	R216	ERG12SJ220J	METAL OXIDE FILM RESISTOR	1	
	R217	ERG12SJ910J	METAL OXIDE FILM RESISTOR	1	
	R251,52	ARRCR2F1213T	METAL GLAZE FIXED RESISTOR	2	
	R253	ERDS2FJ151	CARBON FILM RESISTOR	1	
	R254	ERDS2FJ102	M 1KOHM,J,1/10W	1	
	R256	ER0S2CHD1002	METAL FILM RESISTOR	1	
	R257-59	ERDS2FJ472	CARBON FILM RESISTOR	3	
	R263	ERDS2FJ220	C 22 OHM, J,1/4W	1	
	R264	ERDS2FJ102	M 1KOHM,J,1/10W	1	
	R265	ARRCR1F2703T	METAL GLAZE FIXED RESISTOR	1	
	R266,67	ARRCR1F3323T	METAL GLAZE FIXED RESISTOR	2	
	R302	ERQ14AJ4R7J	F 4.7 OHM, J,1/4W	1	
	R303,04	ERDS2FJ334	CARBON FILM RESISTOR	2	
	R308	ERG12SJ910J	METAL OXIDE FILM RESISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R309	ERG12SJ680J	METAL OXIDE FILM RESISTOR	1	
	R310	ERG12SJ220J	METAL OXIDE FILM RESISTOR	1	
	R311	ERG12SJ910J	METAL OXIDE FILM RESISTOR	1	
	R351	ER0S2CHF8871	M8.87KOHM, F,1/4W	1	
	R352	ARMPC5WR03J	METAL PLATE RESISTOR	1	
	R353	ERDS2FJ561	C 560 OHM, J,1/4W	1	
	R354	ERDS2FJ221	C 220 OHM, J,1/4W	1	
	R355	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
	R356	ER0S2CHD1002	METAL FILM RESISTOR	1	
	R359	ER0S2CHD5232	METAL FILM RESISTOR	1	
	R362	ERG12SJ332J	METAL OXIDE FILM RESISTOR	1	
	R366	ER0S2CHF6981	METAL FILM RESISTOR	1	
	R367	ER0S2CHF8451	METAL FILM RESISTOR	1	
	R371	ER0S2CHF6981	METAL FILM RESISTOR	1	
	R372	ER0S2CHF1151	METAL FILM RESISTOR	1	
	R403	ERG12SJ100J	METAL OXIDE FILM RESISTOR	1	
	R404	ER0S2CKF6492	M64.9KOHM, F,1/4W	1	
	R405	ARRF2EJR10B	METAL PLATE RESISTOR	1	
	R409	ERDS2FJ473	C 47KOHM, J,1/4W	1	
	R411	ER0S2CHF2001	METAL FILM RESISTOR	1	
	R412	ER0S2CKF2001	METAL FILM RESISTOR	1	
	R413,14	ER0S2CHF3162	METAL FILM RESISTOR	2	
	R417,18	ER0S2CHF4422	METAL FILM RESISTOR	2	
	R420	ER0S2CHF5620	METAL FILM RESISTOR	1	
	R421	ER0S2CHF1652	METAL FILM RESISTOR	1	
	R456	ER0S2CKF1332	M13.3KOHM, F,1/4W	1	
	R557	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
	R559	ER0S2CKF1623	M 162KOHM, F,1/4W	1	
	R561	ER0S2CHF2152	METAL FILM RESISTOR	1	
	R603	ARRCR2F4753T	METAL GLAZE FIXED RESISTOR	1	
	R604	ARRCR2F4023T	METAL GLAZE FIXED RESISTOR	1	
	R607,08	ARRCR2F7503T	METAL GLAZE FIXED RESISTOR	2	
	R611	ER0S2CHF5112	METAL FILM RESISTOR	1	
	R617,18	ARRF5EJR15B	METAL PLATE RESISTOR	2	
	R619	ARRF5EJR10B	METAL PLATE RESISTOR	1	
	R622	ERDS2FJ472	CARBON FILM RESISTOR	1	
	R623	ERG12SJ270J	METAL OXIDE FILM RESISTOR	1	
	R624	ERDS2FJ472	CARBON FILM RESISTOR	1	
	R625	ERG12SJ270J	METAL OXIDE FILM RESISTOR	1	
	R626	ERDS2FJ472	CARBON FILM RESISTOR	1	
	R627	ERG12SJ270J	METAL OXIDE FILM RESISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R630,31	ARRCR1F2493T	METAL GLAZE FIXED RESISTOR	2	
	R632	ARRCR1F2213T	METAL GLAZE FIXED RESISTOR	1	
	R701	ERDS2FJ221	C 220 OHM, J,1/4W	1	
	R702	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
	R703	ERDS2FJ221	C 220 OHM, J,1/4W	1	
	R704	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
	R706	ERDS2FJ221	C 220 OHM, J,1/4W	1	
	R707	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
	R712	ERDS2FJ221	C 220 OHM, J,1/4W	1	
	R713	ERDS2FJ222	C 2.2KOHM, J,1/4W	1	
⚠	RF601	HUY5JA200JP	THERMAL CUTOFF WITH RESISTOR	1	
⚠	T201	ETB57LZ1KGAD	TRANSFORMER	1	
⚠	T301	ETB50LZ18GAD	TRANSFORMER	1	
	VR251	EVMEASA01B55	VARIABLE RESISTOR	1	
	VR401	EVMEASA01B54	VARIABLE RESISTOR	1	
	ZD201	MA4270NM	ZENER DIODE	1	
	ZD203,04	MA4270NM	ZENER DIODE	2	
	ZD251	MA4330NM	ZENER DIODE	1	
	ZD301,02	MA4270NM	ZENER DIODE	2	
	ZD305	MA4270NM	ZENER DIODE	1	
	ZD351	MA4330NM	ZENER DIODE	1	
	ZD451	MAZ4068NMF	ZENER DIODE	1	
	ZD601	MA4047NM	ZENER DIODE	1	